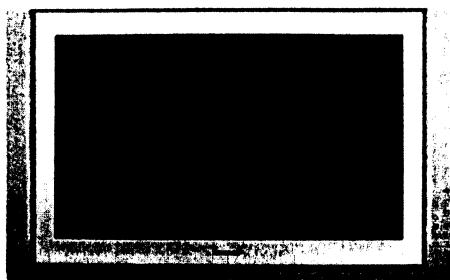


Service Manual



Colour Television

TX-32PM11

TX-28PM11

GP2 Chassis

SPECIFICATIONS

(Information in brackets [] refers to model TX-28PM11)

Power Source: 220-240V a.c., 50Hz

Power Consumption: 98W [82W]

Stand-by Power Consumption: 0.9W

Aerial Impedance: 75Ω unbalanced, Coaxial Type

Receiving System: PAL-I
M.NTSC (AV only)
NTSC (AV only)

Receiving Channels: UHF E21-E68

Intermediate Frequency:

Video/Audio

Video 39.5MHz

Audio 33.5MHz
32.95MHz (NICAM)

Colour 35.07MHz

Terminals:

AUDIO MONITOR OUT Audio (RCAx2) 500mV rms 1kΩ

AV1 IN Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 10kΩ
RGB (21 pin) 0.7V p-p 75Ω

AV1 OUT Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 1kΩ

AV2 IN Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 10kΩ
S-Video IN Y: 1V p-p 75Ω
(21-pin) C:0.3V p-p 75Ω

AV2 OUT Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 1kΩ

AV3 IN S-Video IN Y: 1V p-p 75Ω
(4-pin) C:0.3V p-p 75Ω
Audio (RCAx2) 500mV rms 10kΩ
Video (RCAx1) 1V p-p 75Ω

High Voltage: 32kV ± 1kV [30.5kV ± 1kV]

Picture Tube: W76EPA11X74 76cm
[W66MAF185X02 66cm]

Audio Output: 2x10W RMS, 2x20W MPO,
8Ω impedance

Headphones: 8Ω Impedance

Accessories supplied :

Remote Control
2 x R6 (UM3) Batteries

Dimensions:

Height: 566mm [515mm]
Width: 902mm [766mm]
Depth: 550mm [529mm]

Net weight: 56kg [38kg]

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

Panasonic

Panasonic CS (U.K.) Ltd.
WILLOUGHBY ROAD,
BRACKNELL,
BERKS.,
RG12 8FT.

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SAFETY PRECAUTIONS	2
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SAFETY PRECAUTION

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 33kV [31.5kV] are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

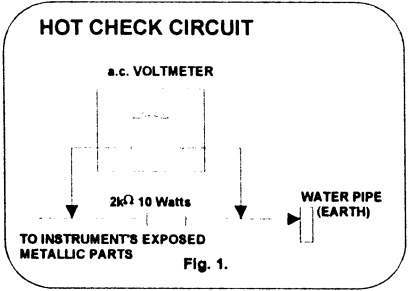
LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2k Ω 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.

4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the previous measurements.
6. The potential at any point should not exceed 1,4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.



X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 33kV [31.5kV] without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate: 32kV $\pm$ 1kV [30.5kV $\pm$ 1kV]. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 12 [10] screws as shown in Fig.2.

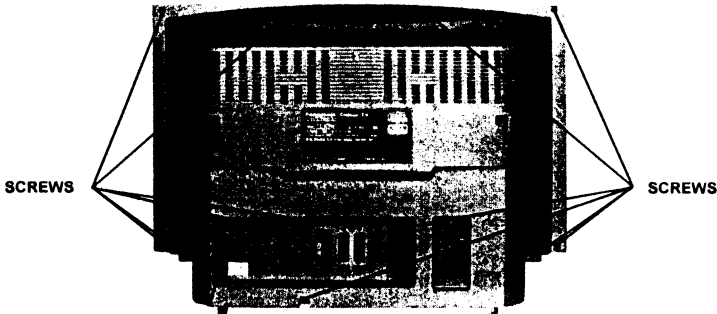


Fig. 2

LOCATION OF CONTROLS

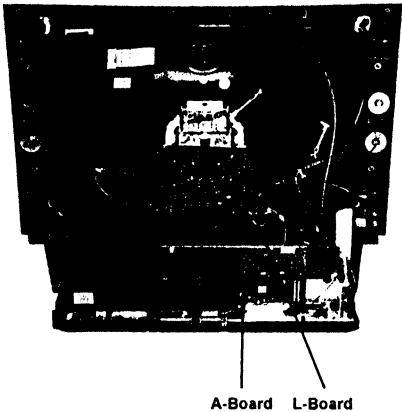


Fig. 3

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove the bead clasper from the mains lead.
2. Hold and lift the rear of the chassis and gently pull the chassis towards you, as shown in Fig.4.
3. Release the respective wiring clips and rotate the chassis horizontally through 90° anti-clockwise.
4. Locate the chassis to position Fig .5. :
5. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

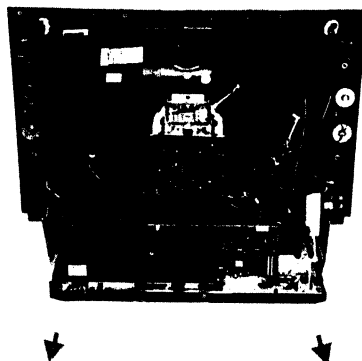


Fig.4 .

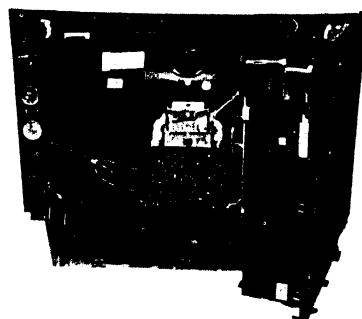


Fig. 5.

ADJUSTMENT PROCEDURE

Item / Preparation		Adjustments	
+B SET-UP		Confirm the following voltages:	
1. Receive a Window pattern.		TPD1	205 ± 10V
2. Set the controls :		TPD2	137 ± 2V
Brightness	Minimum	TPD3	32 ± 2V
Contrast	Minimum	TPD6	12,5 ± 1V
Volume	Minimum		[15,5 ± 1V]
		TPD7	-12,5 ± 1V
		TPD8	30,5 ± 1V
		TPD11	5 ± 0,5V
CUT OFF / Ug2 Test		To adjust Cutoff connect an oscilloscope to the Blue cathode. Adjust the screen VR until the black level is 160V +5V/-5V.	
1. Receive a Window pattern.		Black Level	
2. Set Viewing Mode: Normal		160V+5V/-5V	
3. Normalize the TV set.		GND	
4. Set brightness: Minimum			

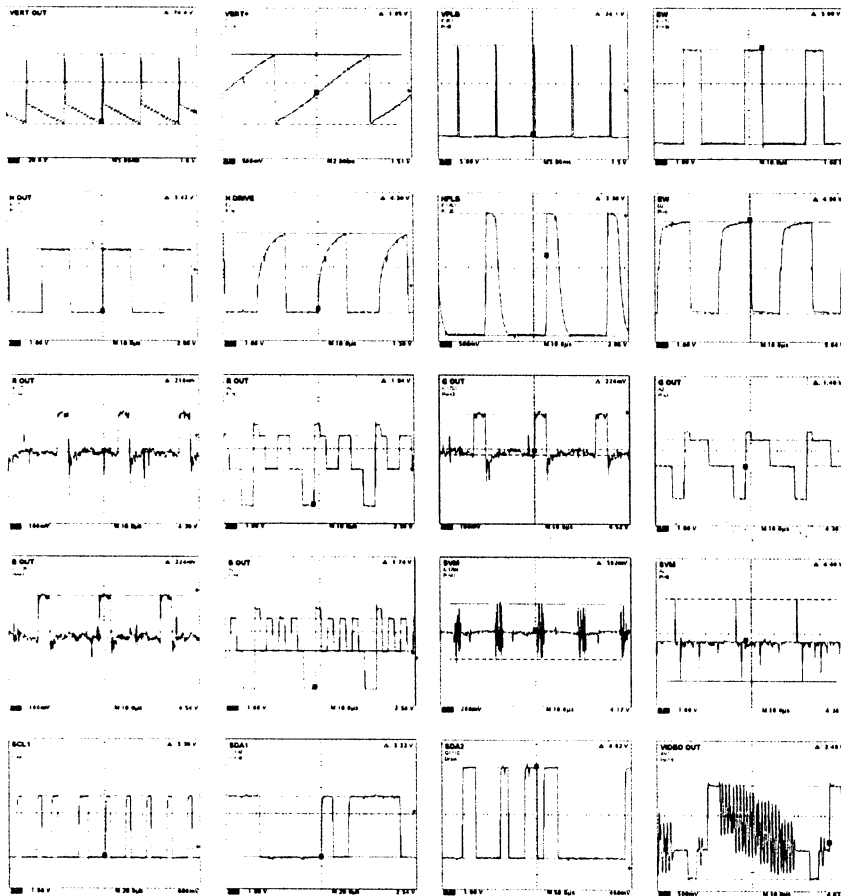
SELF CHECK

Self-check is used to automatically check the bus lines and hexadecimal code of the TV set. To enter Self-Check mode, press the **STATUS** button on the remote control and at the same time press the down (-/v) button on the customer controls at the front the TV set. To exit Self Check, switch off the TV set at the power button.

E2	O.K.	SUM	----
DDP	O.K.		
VSP	O.K.		
VPCD	O.K.		
AVSW	O.K.		
TUN	O.K.		
MSP	O.K.		
DPL	---		
MAS	---		
OPTION 1	0F		
OPTION 2	00		
OPTION 3	10		
OPTION 4	10		
OPTION 5	00		
OPTION 6	15		
OPTION 7	2C		
OPTION 8	40		
OPTION 9	00		
OPTION 10	80		
OPTION 11	1B		
OPTION 12	08		
OPTION 13	8C		
CHECK	DF		

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".

WAVEFORM PATTERN TABLE



CONDITIONS: CONTRAST...MAX, BRIGHTNESS...MID, COLOUR...MID, SHARPNESS...MID

ALIGNMENT SETTINGS

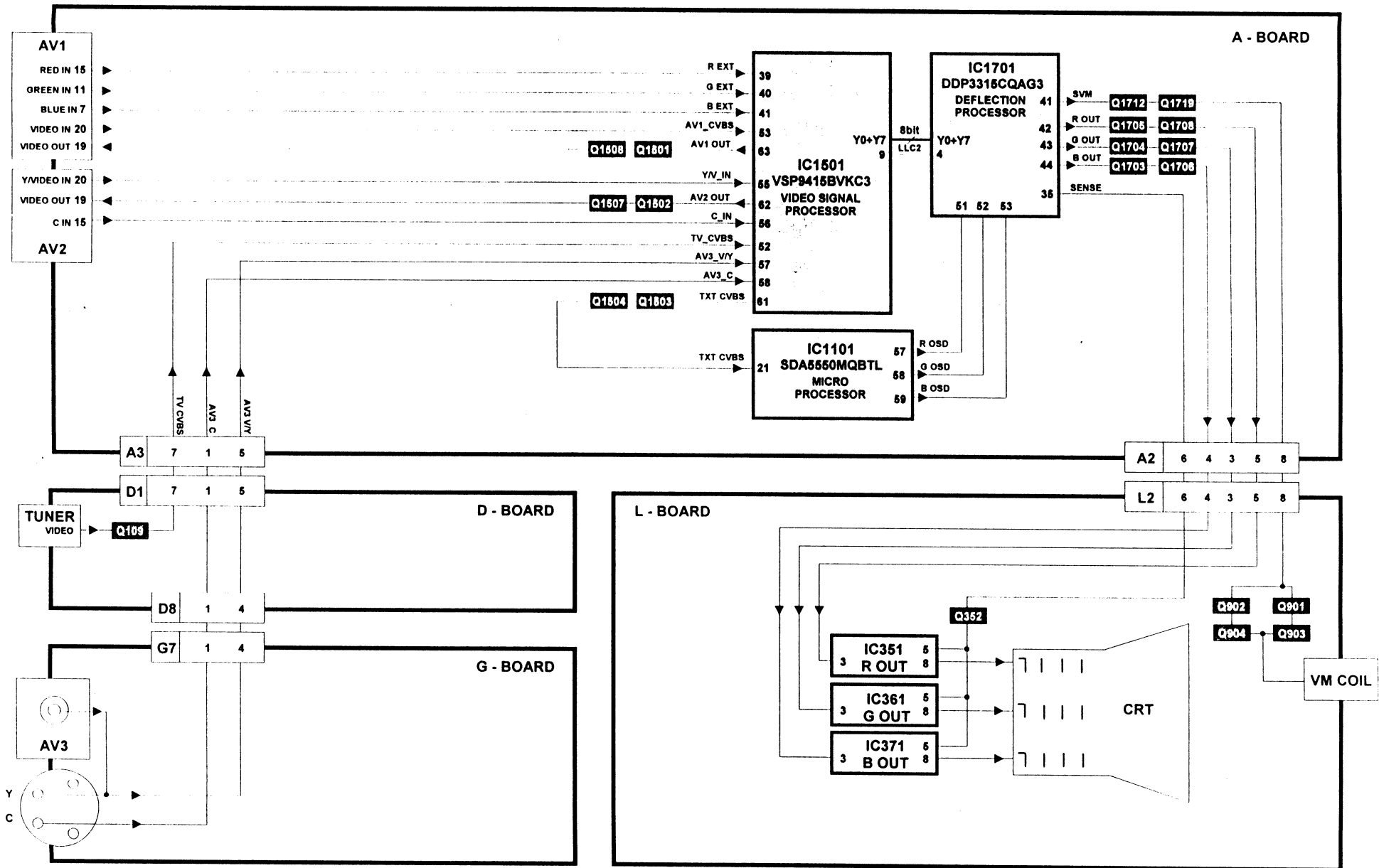
(The figures below are nominal and used for representative purposes only.)

1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (-/v) on the customer controls at the front of the TV and at the same time press the INDEX button on the remote control, this will place the TV into the Service Mode 1.
2. Press the RED / GREEN buttons to step up / down through the functions.
3. Press the YELLOW / BLUE buttons to alter the function values.
4. Press the OK button after each adjustment has been made to store the required values.
5. To exit the Service Mode, press the "N" button.

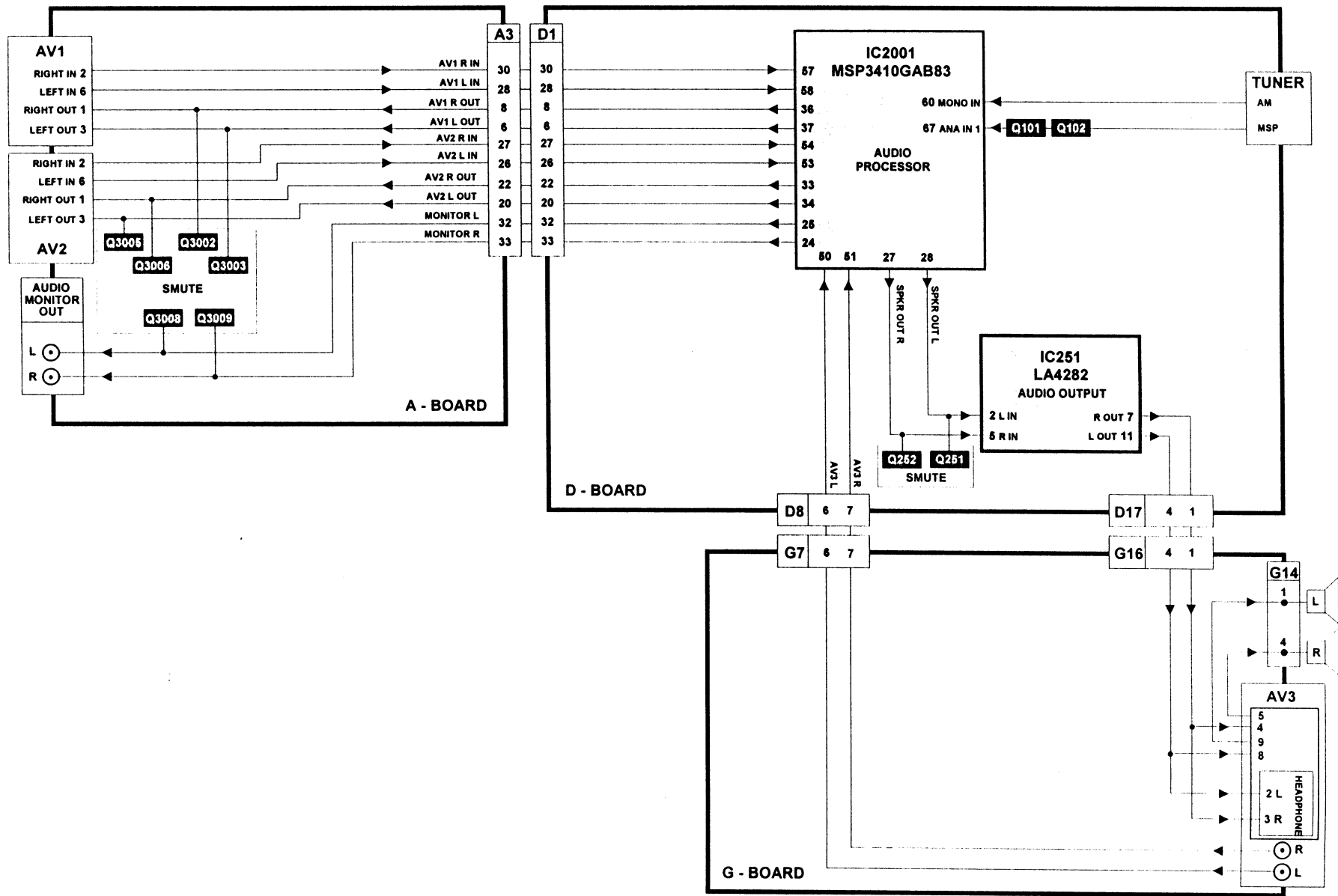
Alignment Function	Setting Indication Note: All setting values are approximate	Settings / Special features
Horizontal Position	H-Pos 40	Optimum setting.
Vertical Position	V-Pos 30	Optimum setting.
Horizontal Amplitude	H-Amp 2	Optimum setting.
Vert. Amplitude	V-Amp -33	Optimum setting.
EW-amplitude	EW-Amp 1 -36	Optimum setting.
Lower Corner	Lower Corner 1	Optimum setting.
Trapezium-comp	Trapez 1 -5	Optimum setting.
Upper Corner	Upper Corner 1	Optimum setting.
Vertical Linearity	V-Lin -5	Optimum setting.
Vertical Symmetry	V-Sym 38	Optimum setting.
Angle	Angle 0	Optimum setting.
Bow	Bow 0	Optimum setting.
DVCO	DVCO 0	Receive a PAL Colour Bar Pattern. For DVCO alignment press "Blue" button, wait until the figure colour is changed from red to black colour.
Highlight Lowlight	High 0403 0318 0350 Low 0130 0150 0160	Optimum setting.
Sub-Brightness	Sub-Brightness 13	Optimum setting.

VIDEO BLOCK DIAGRAM

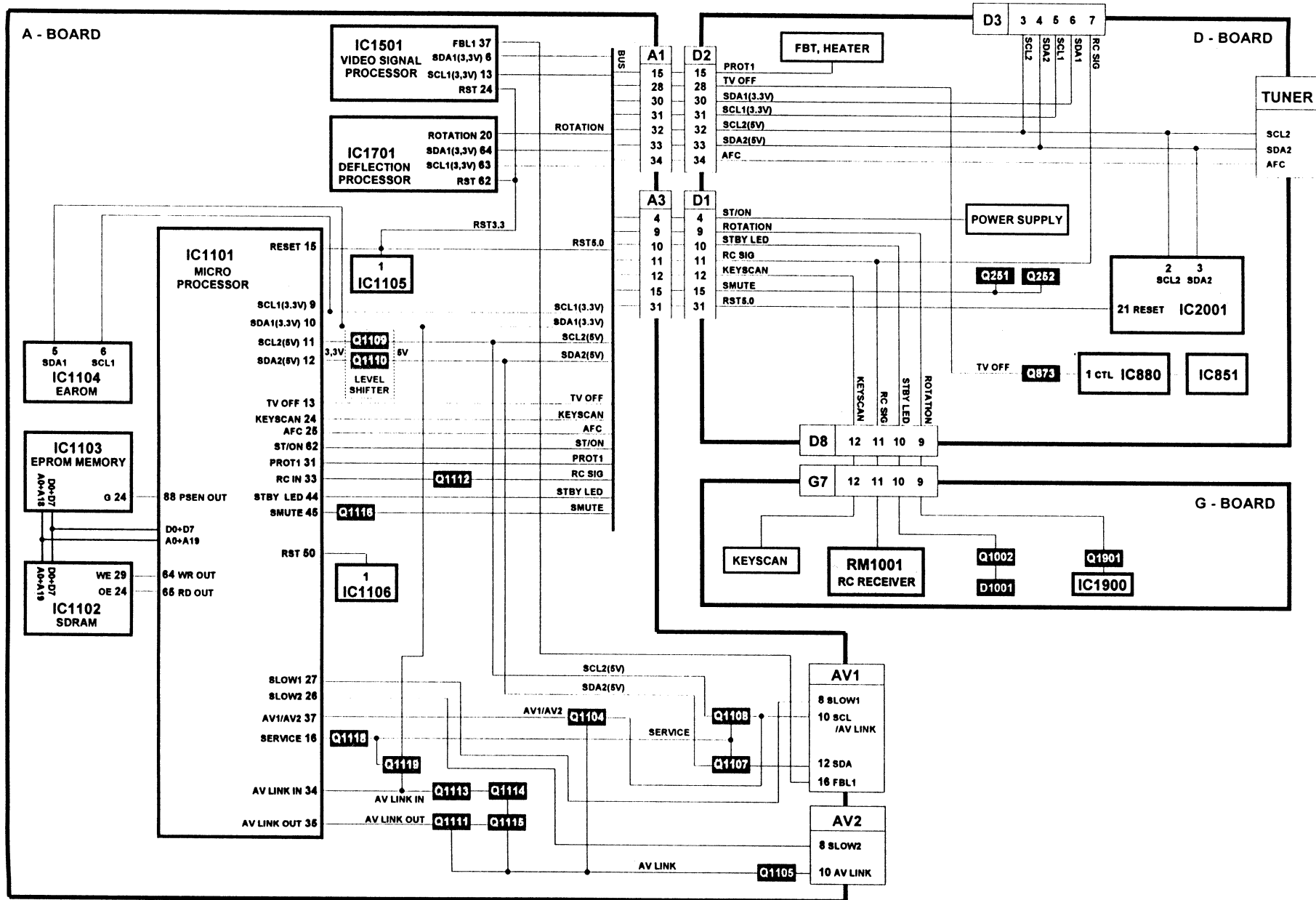
8



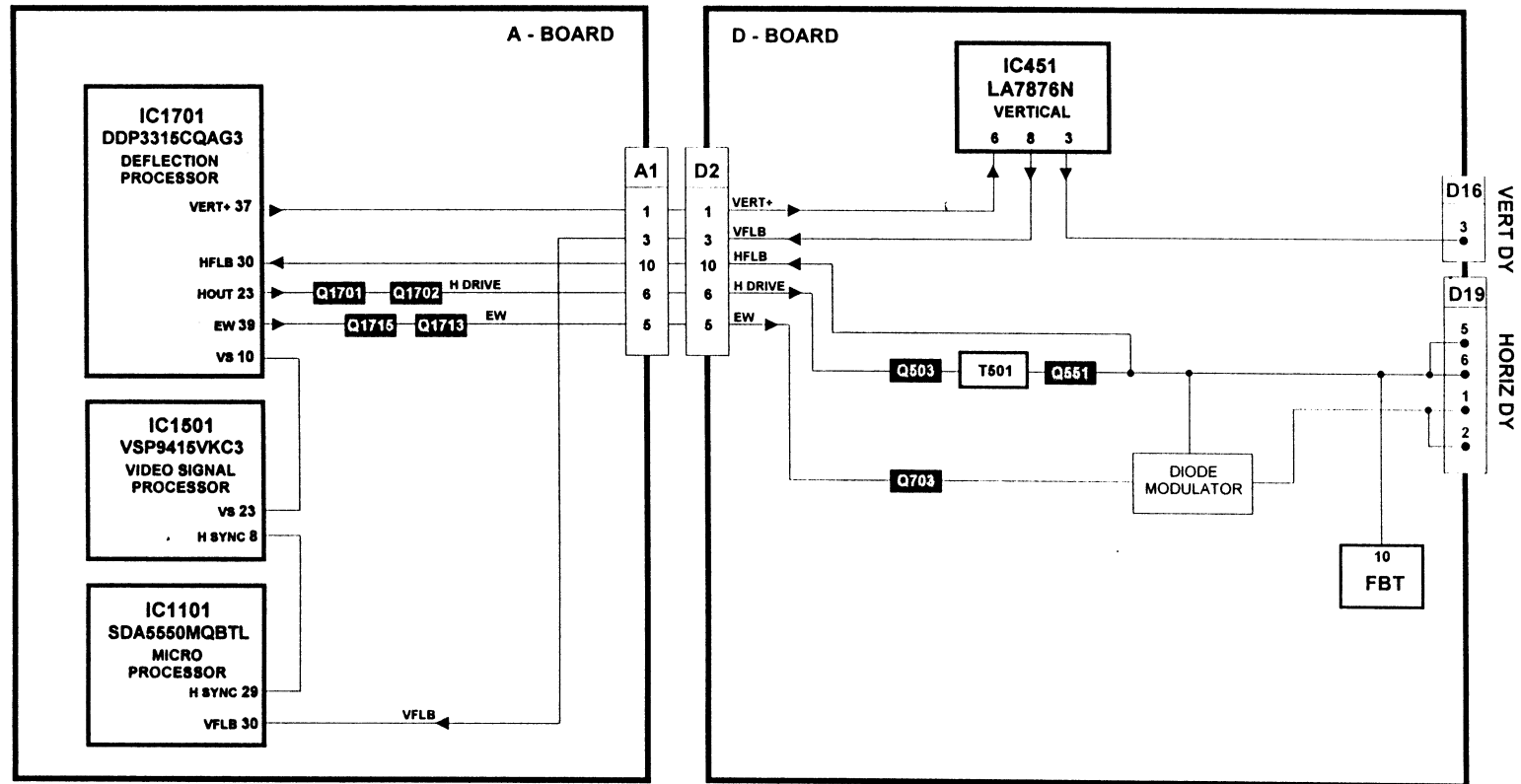
AUDIO BLOCK DIAGRAM



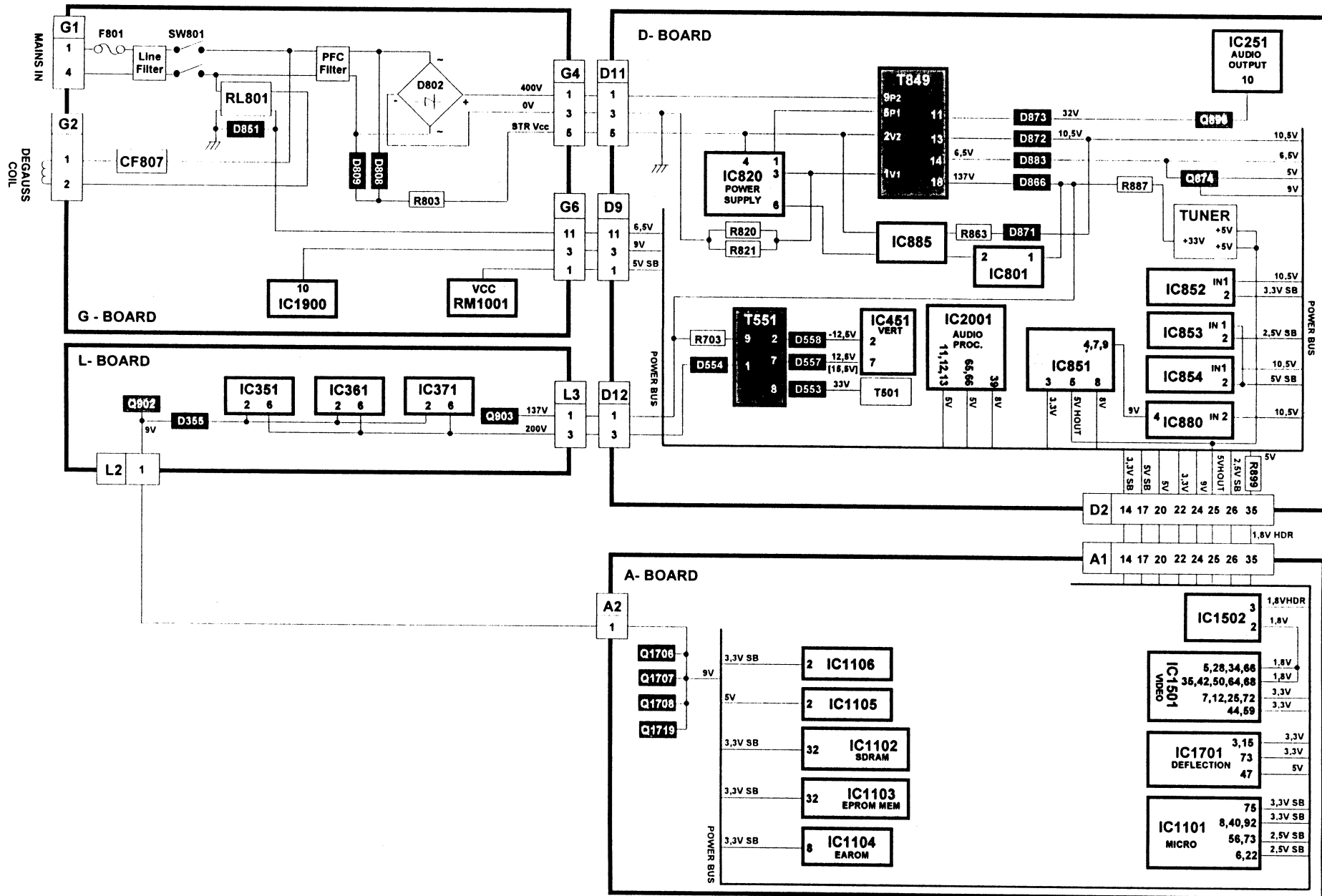
CONTROL BLOCK DIAGRAM



DEFLECTION BLOCK DIAGRAM



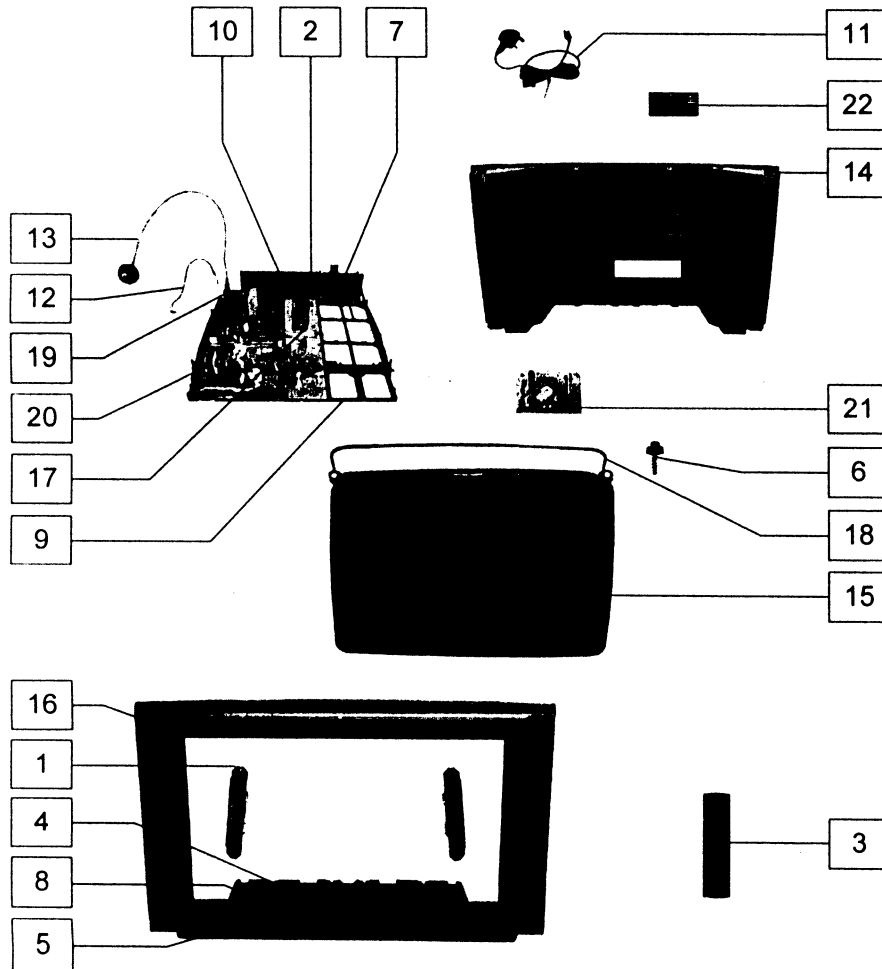
POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION

NOTE:

The numbers on the exploded view below refer to the exploded view section of the Replacement Parts List.



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by Δ mark have special characteristics important for safety. * When replacing any of these components, use only manufacturers specified parts. In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description
---------	--------------	-------------

COMMON PARTS

EXPLODED VIEW

1	BLS42240-8	SPEAKER
2	ENG27519G	TUNER
3	EUR7628010	REMOTE CONTROL
4	TBM0E0101	PANASONIC BADGE
5	TBX0E80800	POWER BUTTON
6	TH11082	CRT FIXING SCREW
7	TKP0E11805-1	AV PANEL
8	TKP0E12001	DOOR LID
9	TMX0E404-2	CHASSIS FRAME
10	TNP0EA021AM	A.P.C.B.
11	TXASX01DBZG1	AC CORD ASSY
12	TXJFC0DEG1	FOCUS LEAD ASSY
13	ZTBZAD550A	ANODE LEAD

MISCELLANEOUS COMPONENTS

R8RC/2P	BATTERY
TBLG3020	SET FOOT (REAR)
TBM0E0232	PRESET LABEL L
TEK6935	LID SWITCH
TES8E20	POWER BUTTON SPRING
TKP0E12101	IR WINDOW
TLK8E05196	ROTATION COIL
TMW8E050-2	LED HOLDER
TMM8E18027	SPACER

CKN2

INSTRUCTION BOOKS

TQB0E0033-M	ENGLISH
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I.C.s

IC251	LA4282	AUDIO OUTPUT
IC351	TDA6111Q/N4	RGB OUTPUT
IC361	TDA6111Q/N4	RGB OUTPUT
IC371	TDA6111Q/N4	RGB OUTPUT
IC451	LA7878N	VERTICAL OUTPUT
IC801	6E130N	ERROR AMPLIFIER
IC820	6TRW8754LF06	POWER SUPPLY
IC851	C0DAFKE00001	REGULATOR
IC852	TA48M033FS	VOLTAGE REGULATOR
IC853	TA48025F	REGULATOR
IC854	TA4805SLBS1	REGULATOR
IC880	BA095T-V5	REGULATOR
IC1101	SDA5550MBTL	MICRO PROCESSOR
IC1102	K8X4008T1FV7	SRAM
IC1103	15E0V0800E	4MEG EPROM M27W401-80B
IC1105	MN1381TU	RESET

Cct Ref	Parts Number	Description
---------	--------------	-------------

IC1106	MN1381JU	RESET
IC1501	VSP9415BVKC3	VIDEO PROCESSOR
IC1502	LD1117S18TR	REGULATOR
IC1701	DDP3315CQAG3	DEFLECTION PROCESSOR
IC1900	LA8515	EARTH CORRECTION
IC2001	MSP3410GAB83	AUDIO PROCESSOR
RM1001	RPM-6937	LED RECEIVER

FUSES

F801-L	EYF52BC	FUSE HOLDER
F801-R	EYF52BC	FUSE HOLDER
F801	S5055AC	FUSE
F871	TSF19632	FS LINK

DIODES

CF807	59890T60B110	THERMISTOR
D251	MA700ATA	DIODE
D252	MA700ATA	DIODE
D351	1SS355TE-17	DIODE
D352	ERA15-04V3	DIODE
D354	1SS355TE-17	DIODE
D355	MA723TA	DIODE
D361	1SS355TE-17	DIODE
D362	ERA15-04V3	DIODE
D371	1SS355TE-17	DIODE
D372	ERA15-04V3	DIODE
D454	EU02V0	DIODE
D456	MTZJT-776 2B	DIODE
D457	1SS133T-77	DIODE
D458	EU02V0	DIODE
D501	1SS133T-77	DIODE
D502	EU02V0	DIODE
D503	1SS133T-77	DIODE
D504	1SS133T-77	DIODE
D505	MTZJT-7710D	DIODE
D553	EU02V0	DIODE
D554	EU02V0	DIODE
D555	1SS133T-77	DIODE
D556	UDZ5TE-1722B	DIODE
D557	ERB93-02E	DIODE
D558	ERB93-02E	DIODE
D559	1SS133T-77	DIODE
D560	RH3GLF102	DIODE
D563	EU02V0	DIODE
D565	EU02V0	DIODE
D566	EU02V0	DIODE
D575	MTZJT-775 1C	DIODE
D576	EU02V0	DIODE
D580	FMV-3GULF730	DIODE
D706	EU02V0	DIODE
D707	EU02V0	DIODE
D710	MTZJT-7716C	DIODE
D711	MA4056MTA	DIODE

Cct Ref	Parts Number	Description
D712	1SS133T-77	DIODE
D713	MA4130MTA	DIODE
D714	MTZJT-775 6A	DIODE
D717	MA4020LTA	DIODE
D802	RBV-408LF-B	DIODE
D803	BZX79B75A26A	DIODE
D804	BZX79B75A26A	DIODE
D808	AU02AV0	DIODE
D809	AU02AV0	DIODE
D820	MTZJT-776 8B	DIODE
D822	SARS01V1	DIODE
D823	1SR124-4AT82	DIODE
D824	1SR124-4AT82	DIODE
D825	1SS133T-77	DIODE
D851	1SS133T-77	DIODE
D865	RU2BLFC4	DIODE
D866	RU4BLF-L1	DIODE
D867	1SR124-4AT82	DIODE
D868	MTZJT-773 3B	DIODE
D869	MTZJT-775 1B	DIODE
D870	1SS133T-77	DIODE
D871	1SR124-4AT82	DIODE
D872	RK46LF-M1	DIODE
D873	FMG26S	DIODE
D877	1SS133T-77	DIODE
D878	1SS133T-77	DIODE
D880	1SS133T-77	DIODE
D881	MTZJT-7736A	DIODE
D883	RK46LF-M1	DIODE
D887	1SR124-4AT82	DIODE
D888	1SS133T-77	DIODE
D889	1SR124-4AT82	DIODE
D890	1SS133T-77	DIODE
D891	1SS133T-77	DIODE
D892	1SS133T-77	DIODE
D893	BZX79B75A26A	DIODE
D894	MTZJT-7722C	DIODE
D895	MTZJT-775 1B	DIODE
D896	1SS133T-77	DIODE
D898	MTZJT-7720B	DIODE
D1001	LNH201RFC6	LED
D1004	MTZJT-778 2C	DIODE
D1102	1SS355TE-17	DIODE
D1104	1SS355TE-17	DIODE
D1105	1SS355TE-17	DIODE
D1701	DAN217T146	DIODE
D1702	DAN217T146	DIODE
D1703	1SS355TE-17	DIODE
D1705	1SR124-4AT82	DIODE
D2005	1SS133T-77	DIODE
D2006	1SS133T-77	DIODE
D2007	1SS133T-77	DIODE
D2008	1SS133T-77	DIODE
D2009	1SS133T-77	DIODE
D2010	MTZJT-774 7C	DIODE
D3201	MTZJT-778 2C	DIODE
D3202	MTZJT-778 2C	DIODE
D3203	MTZJT-778 2C	DIODE
D3204	UDZ5TE-1716B	DIODE
IC885	PC123FY2	PHOTO COUPLER

TRANSISTORS

Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q109	BC847B	TRANSISTOR
Q251	BC847B	TRANSISTOR
Q252	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q351	BC857B	TRANSISTOR
Q352	BC857B	TRANSISTOR
Q503	2SD1223TE16L	TRANSISTOR
Q551	2SC5905000RK	TRANSISTOR
Q552	2SC1473ATA	TRANSISTOR
Q556	BC847B	TRANSISTOR
Q701	BC847B	TRANSISTOR
Q702	BC847B	TRANSISTOR
Q703	2SK2231TE16L	TRANSISTOR
Q704	BC847B	TRANSISTOR
Q705	BC547B/126	TRANSISTOR
Q706	BC847B	TRANSISTOR
Q707	2SA1018QTA	TRANSISTOR
Q850	BC847B	TRANSISTOR
Q852	BC847B	TRANSISTOR
Q865	2SA1068LF803	TRANSISTOR
Q866	MPSA42/RA	TRANSISTOR
Q870	BC847B	TRANSISTOR
Q871	BC857B	TRANSISTOR
Q873	BC847B	TRANSISTOR
Q874	2SD2396K	TRANSISTOR
Q896	2SK2231TE16L	TRANSISTOR
Q898	BC847B	TRANSISTOR
Q901	BC857B	TRANSISTOR
Q902	BC847B	TRANSISTOR
Q903	2SA1535ARLB	TRANSISTOR
Q904	2SC3944ARLB	TRANSISTOR
Q1002	BC847B	TRANSISTOR
Q1103	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1109	2N7002	TRANSISTOR
Q1110	2N7002	TRANSISTOR
Q1111	BC847B	TRANSISTOR
Q1112	BC847B	TRANSISTOR
Q1113	BC847B	TRANSISTOR
Q1114	BC847B	TRANSISTOR
Q1115	BC847B	TRANSISTOR
Q1116	BC857B	TRANSISTOR
Q1117	BC847B	TRANSISTOR
Q1118	BC847B	TRANSISTOR
Q1119	BC847B	TRANSISTOR
Q1501	BC847B	TRANSISTOR
Q1502	BC847B	TRANSISTOR
Q1503	BC847B	TRANSISTOR
Q1504	BC857B	TRANSISTOR
Q1507	BC857B	TRANSISTOR
Q1508	BC857B	TRANSISTOR
Q1701	BC847B	TRANSISTOR
Q1702	BC847B	TRANSISTOR
Q1703	BC847B	TRANSISTOR
Q1704	BC847B	TRANSISTOR
Q1705	BC847B	TRANSISTOR
Q1706	FMY4AT148	TRANSISTOR
Q1707	FMY4AT148	TRANSISTOR
Q1708	FMY4AT148	TRANSISTOR
Q1711	BC847B	TRANSISTOR
Q1712	BC847B	TRANSISTOR
Q1713	BC847B	TRANSISTOR
Q1715	BC847B	TRANSISTOR
Q1719	BC847B	TRANSISTOR
Q1901	BC847B	TRANSISTOR
Q2006	BC857B	TRANSISTOR

Cct Ref	Parts Number	Description
Q3002	BC847B	TRANSISTOR
Q3003	BC847B	TRANSISTOR
Q3005	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3008	BC847B	TRANSISTOR
Q3009	BC847B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y212AZ	TRANSFORMER
T849	45T-2029	TRANSFORMER
COILS		
J54	EXCELSA35T	COIL
L103	EXCELSA35T	COIL
L104	EXCELD35V	COIL
L107	TALV35VB100K	COIL
L109	ELJFC47KF	COIL
L116	ELESN6R8KA	COIL
L701	ELC18B181F	COIL
L704	ELC18B182F	COIL
L865	EXCELSA35T	COIL
L868	EXCELSA35T	COIL
L887	ELEKE470KA	COIL
L871	EXCELSA35T	COIL
L872	EXCELSA35T	COIL
L873	EXCELSA35T	COIL
L874	EXCELSA35T	COIL
L1061	TLT331K991R	COIL
L1101	TALV35VB8R2K	COIL
L1103	ELESN4R7KA	COIL
L1104	ELESN4R7KA	COIL
L1501	ELESN4R7KA	COIL
L1502	ELESN4R7KA	COIL
L1503	ELJFC2R2KF	COIL
L1701	EXC3B8221H	COIL
L2001	TALV35VB100K	COIL
L2004	ELESN101KA	COIL
L2005	TALV35VB100K	COIL
L2006	ELJFC47KF	COIL
L2007	ELJFC47KF	COIL
L2351	EXCELD35V	COIL
L2352	EXCELD35V	COIL
L3201	ELESN6R8KA	COIL
L3202	ELESN6R8KA	COIL
L3204	ELESN6R8KA	COIL
L3205	ELESN6R8KA	COIL
L3206	EXCELSA35T	COIL
LF801	ELF21V012A	COIL
FILTERS		
DL1510	ELKE103FA	FILTER
DL1511	ELKE103FA	FILTER
DL1512	ELKE103FA	FILTER
DL1513	ELKE103FA	FILTER
DL1705	ELKE103FA	FILTER
DL1708	ELKE103FA	FILTER
DL1713	TLK212T256AL	FILTER
CRYSTALS		
X1101	A1060006AD	CRYSTAL
X1501	A1020504E	CRYSTAL
X1701	4730007823	CRYSTAL
X2001	4730007158	CRYSTAL
RESISTORS		
JA1	ERJ8GEY0R00Z	S.M.CARB - - 0.0
JA1	ERJ8GEY0R00V	S.M.CARB 125W - - 0.0
JA4	ERJ8GEY0R00Z	S.M.CARB - - 0.0
JA7	ERJ8GEY0R00V	S.M.CARB 125W - - 0.0
JA14	ERJ8GEY0R00V	S.M.CARB 125W - - 0.0

Cct Ref	Parts Number	Description			
JA15	ERJ8GEY0R00V	S.M.CARB 125W	-	-	0.0
JA20	ERJ8GEY0R00V	S.M.CARB 125W	-	-	0.0
JA27	ERJ8GEY0R00V	S.M.CARB 125W	-	-	0.0
JA32	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R111	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R112	ERJ8GEYJ101Z	SMD 125W	5%	100.0	
R113	ERJ8GEYJ223V	S.M.CARB 0.1W	5%	22K.0	
R114	ERJ8GEYJ471V	S.M.CARB 0.1W	5%	470.0	
R115	ERJ8GEYJ102Z	SMD 0.125	5%	1K.0	
R116	ERJ8GEYJ101Z	SMD 125W	5%	100.0	
R117	ERJ8GEYJ332V	S.M.CARB 0.1W	5%	3K3.0	
R118	ERJ8GEYJ681V	S.M.CARB 0.1W	5%	680.0	
R120	ERJ8GEYJ222V	S.M.CARB 0.1W	5%	2K2.0	
R121	ERJ8GEYJ103V	S.M.CARB 0.1W	5%	10K.0	
R122	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R129	ERJ8GEYJ101Z	SMD 125W	5%	100.0	
R134	ERJ8GEYJ101Z	SMD 125W	5%	100.0	
R135	ERJ8GEYJ101Z	SMD 125W	5%	100.0	
R136	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R141	ERJ8GEYJ102Z	SMD 0.125	5%	1K.0	
R142	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R143	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R148	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R250	ERJ8GEYJ103V	S.M.CARB 0.1W	5%	10K.0	
R251	ERJ8GEYJ471V	S.M.CARB 0.1W	5%	470.0	
R252	ERJ8GEYJ103V	S.M.CARB 0.1W	5%	10K.0	
R253	ERJ8GEYJ471V	S.M.CARB 0.1W	5%	470.0	
R254	ERJ8GEYJ103V	S.M.CARB 0.1W	5%	10K.0	
R255	ERJ8GEYJ104V	S.M.CARB 0.1W	5%	100K.0	
R256	ERJ8GEYJ104V	S.M.CARB 0.1W	5%	100K.0	
R257	ERJ8GEYJ150V	S.M.CARB 125W	5%	15.0	
R258	ERJ8GEYJ150V	S.M.CARB 125W	5%	15.0	
R259	ERJ8GEYJ121V	S.M.CARB 0.1W	5%	120.0	
R260	ERJ8GEYJ121V	S.M.CARB 0.1W	5%	120.0	
R261	ERJ8GEYJ152V	S.M.CARB 0.1W	5%	1K5.0	
R262	ERJ8GEYJ152V	S.M.CARB 0.1W	5%	1K5.0	
R263	ERDS2TJ2R2T	CARBON 0.25W	5%	2R2.0	
R264	ERDS2TJ2R2T	CARBON 0.25W	5%	2R2.0	
R269	ERJ8GEY0R00Z	S.M.CARB	-	-	0.0
R350	ERQ12AJ151P	FUSIBLE 0.5W	5%	150.0	
R352	ERJ8GEYJ202V	S.M.CARB 0.1W	5%	2K.0	
R353	ERJ8GEYJ821V	S.M.CARB 0.1W	5%	820.0	
R354	ERJ8GEYJ102Z	SMD 0.125	5%	1K.0	
R355	ERG1SJ823P	METAL 1W	5%	82K.0	
R356	ERJ8GEYJ560V	S.M.CARB 0.1W	5%	56.0	
R357	ERJ8GEYJ681V	S.M.CARB 0.1W	5%	680.0	
R358	ERDS1TJ821V	CARBON 0.5W	5%	820.0	
R359	ERJ8GEYJ391V	S.M.CARB 0.1W	5%	390.0	
R360	ERJ8GEYJ102Z	SMD 0.125	5%	1K.0	
R362	ERJ8GEYJ202V	S.M.CARB 0.1W	5%	2K.0	
R363	ERJ8GEYJ821V	S.M.CARB 0.1W	5%	820.0	
R364	ERJ8GEYJ102Z	SMD 0.125	5%	1K.0	
R365	ERG1SJ823P	METAL 1W	5%	82K.0	
R366	ERJ8GEYJ560V	S.M.CARB 0.1W	5%	56.0	
R368	ERDS1TJ821V	CARBON 0.5W	5%	820.0	
R372	ERJ8GEYJ202V	S.M.CARB 0.1W	5%	2K.0	
R373	ERJ8GEYJ821V	S.M.CARB 0.1W	5%	820.0	
R375	ERG1SJ823P	METAL 1W	5%	82K.0	
R376	ERJ8GEYJ560V	S.M.CARB 0.1W	5%	56.0	
R378	ERDS1TJ821V	CARBON 0.5W	5%	820.0	
R380	ERJ8GEYJ392V	S.M.CARB 0.1W	5%	3K9.0	
R381	ERJ8GEYJ102Z	SMD 0.125	5%	1K.0	
R451	ERJ8GEYJ223V	S.M.CARB 0.1W	5%	22K.0	
R453	ERDS2TJ0T	CARBON	-	-	0.0
R454	ERJ8GEYJ273V	S.M.CARB 0.1W	5%	27K.0	
R455	ERDS2TJ223T	CARBON 0.25W	5%	22K.0	

Cct Ref	Parts Number	Description	2W	5%	1R2 Q
R461	ERX2SJS1R2H	FUSIBLE			
R464	ERJ6GEYJ512V	S M CARB	0 1W	5%	5K1 Q
R465	ERJ6GEYJ821V	S M CARB	0 1W	5%	820 Q
R467	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R501	ERJ6GEYJ392V	S M CARB	0 1W	5%	3K9 Q
R503	ERJ6GEYJ103V	S M CARB	0 1W	5%	10K Q
H509	ERG1SJ222E	METAL	0 5W	5%	2K2 Q
R510	ERG1SJ222E	METAL	0 5W	5%	2K2 Q
R555	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R556	ERJ6GEYJ124V	S M CARB	0 1W	5%	120K Q
R557	ERJ6GEYJ101Z	SMD	125W	5%	100 Q
R558	ERDS1TJ124T	CARBON	0 5W	5%	120K Q
R559	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R560	ERJ6GEYJ274V	S M CARB	0 1W	5%	270K Q
R561	ERJ6GEYJ223V	S M CARB	0 1W	5%	22K Q
R562	ERJ6GEYJ104V	S M CARB	0 1W	5%	100K Q
R563	ERJ6GEYJ564V	S M CARB	0 1W	5%	560K Q
R564	ERJ6GEYJ563V	S M CARB	0 1W	5%	56K Q
R566	ERJ6GEYJ102Z	SMD	0 125	5%	1K Q
H567	ERJ6GEYJ124V	S M CARB	0 1W	5%	120K Q
H568	ERDS1TJ120T	CARBON	0 5W	5%	12 Q
R569	ERJ6GEYJ102Z	SMD	0 125	5%	1K Q
H576	ERG12HMR36P	FUSIBLE	0 5W	10%	R39 Q
R581	ERG3FJ561H	METAL	3W	5%	560 Q
R701	ERJ6GEYJ101Z	SMD	125W	5%	100 Q
R702	ERX3FJ1R0H	METAL	3W	5%	1 Q
R704	ERDS1FJ472V	CARBON	0 5W	5%	4K7 Q
R705	ERG3FJ201H	METAL	3W	5%	200 Q
R706	ERG3FJ201H	METAL	3W	5%	200 Q
H707	ERJ6GEYJ272V	S M CARB	0 1W	5%	2K7 Q
R708	ERJ6GEYJ103V	S M CARB	0 1W	5%	10K Q
R709	ERJ6GEYJ473V	S M CARB	0 1W	5%	47K Q
R710	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R711	ERG2SJS123H	METAL	2W	5%	12K Q
R712	ERJ6GEYJ203V	S M CARB	0 1W	5%	20K Q
R715	ERDS2TJ272T	CARBON	0 25W	5%	2K7 Q
R716	ERQ12AJ680P	METAL	0 5W	5%	68 Q
R717	ERJ6GEYJ242V	S M CARB	0 1W	5%	2K4 Q
R718	ERJ6GEYJ203V	S M CARB	0 1W	5%	20K Q
R720	ERJ6GEYJ302V	S M CARB	0 1W	5%	3K Q
R721	ERJ6GEYJ202V	S M CARB	0 1W	5%	2K Q
R722	ERJ6GEYJ242V	S M CARB	0 1W	5%	2K4 Q
R723	ERJ6GEYJ473V	S M CARB	0 1W	5%	47K Q
R724	ERG2FJ820H	METAL	2W	5%	82 Q
R725	ERG1FJ202P	METAL	1W	5%	2K Q
R801	ERC12ZGK105C	SOLID	0 5W	10%	1M Q Δ
R803	ERDS1TJ683T	CARBON	0 5W	5%	68K Q
H810	D0D2R27KA003	WOUND	2W	10%	R27 Q
H821	D0D2K27KA003	WOUND	2W	10%	R27 Q
R823	ERDS1TJ221T	CARBON	0 5W	5%	22Q Q
R825	ERDS1TJ102T	CARBON	0 5W	5%	1K Q
R827	ERDS1TJ272T	CARBON	0 5W	5%	2K7 Q
R828	ERDS1TJ100T	CARBON	0 5W	5%	10 Q
R829	ERG2FJ470H	METAL	2W	5%	47 Q
R830	ERDS1TJ684T	CARBON	0 5W	5%	680K Q
R831	ERD75TAJ825	CARBON	1W	5%	8M2 Q Δ
R852	ERG12SJA70P	METAL	0 5W	5%	47 Q
R853	ERJ6GEYJ103V	S M CARB	0 1W	5%	10K Q
R854	ERJ6GEYJ203V	S M CARB	0 1W	5%	20K Q
R860	ERJ6GEYJ103V	S M CARB	0 1W	5%	10K Q
R860	ERJ6GEYJ473V	S M CARB	0 1W	5%	47K Q
R861	ERDS2TJ123T	CARBON	0 25W	5%	12K Q
R862	ERDS2TJ182T	CARBON	0 25W	5%	1K8 Q
R863	ERDS2TJ102T	CARBON	0 25W	5%	1K Q
R864	ERDS2TJ472T	CARBON	0 25W	5%	4K7 Q
R865	ERQ12HJ180P	FUSIBLE	0 5W	5%	18 Q Δ

Cct Ref	Parts Number	Description	0 1W	5%	6K8 Q
R867	ERJ6GEYJ682V	S M CARB	0 1W	5%	6K8 Q
R868	ERDS2TJ271T	CARBON	0 25W	5%	270 Q
R869	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R871	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R882	ERJ6GEYJ153V	S M CARB	0 1W	5%	15K Q
R883	ERJ6GEYJ473V	S M CARB	0 1W	5%	47K Q
R884	ERJ6GEYJ753V	S M CARB	0 1W	5%	75K Q
R885	ERDS2TJ752T	CARBON	0 25W	5%	7K5 Q
R886	ERJ6GEYJ752V	S M CARB	0 1W	5%	7K5 Q
R887	ERDS1TJ683T	CARBON	0 5W	5%	68K Q
R889	ERJ6GEYJ752V	S M CARB	0 1W	5%	7K5 Q
R892	ERDS1TJ751T	CARBON	0 5W	5%	750 Q
R893	ERJ6ENF3002V	S M CARB	0 1W	5%	30K Q
R894	ERJ6ENF1002V	S M CARB	0 1W	1%	10K Q
R896	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R897	ERDS2TJ622T	CARBON	0 25W	5%	6K2 Q
R898	ERDS2TJ273T	CARBON	0 25W	5%	27K Q
R899	ERX2FJ3R9H	METAL	2W	5%	3 Q
R901	ERJ6GEYJ271V	S M CARB	0 1W	5%	270 Q
R902	ERDS2TJ122T	CARBON	0 25W	5%	1K2 Q
R903	ERDS2TJ100T	CARBON	0 25W	5%	10 Q
R904	ERG5FJ152H	METAL	5W	5%	1K5 Q
R905	ERJ6GEYJ271V	S M CARB	0 1W	5%	270 Q
R906	ERDS2TJ122T	CARBON	0 25W	5%	1K2 Q
R907	ERDS2TJ124T	CARBON	0 25W	5%	120K Q
R908	ERDS2TJ124T	CARBON	0 25W	5%	120K Q
R909	ERDS2TJ100T	CARBON	0 25W	5%	10 Q
R910	ERG2SJS181E	METAL	2W	5%	180 Q
R914	ERJ6GEYJ331V	S M CARB	0 1W	5%	330 Q
R1005	ERJ6GEYJ332V	S M CARB	0 1W	5%	3K3 Q
R1007	ERJ6GEYJ103V	S M CARB	0 1W	5%	10K Q
R1017	ERJ6GEYJ103V	S M CARB	0 1W	5%	10K Q
R1043	ERJ6GEYJ682V	S M CARB	0 1W	5%	6K8 Q
R1044	ERJ6GEYJ123V	S M CARB	0 1W	5%	12K Q
R1045	ERJ6GEYJ223V	S M CARB	0 1W	5%	22K Q
R1046	ERJ6GEYJ683V	S M CARB	0 1W	5%	68K Q
R1047	ERDS2TJ102T	CARBON	0 25W	5%	1K Q
R1101	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1102	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1103	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1104	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1105	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1106	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1107	ERJ3GEYJ562V	S M CARB	0 1W	5%	5K6 Q
R1108	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1109	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1110	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1111	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1114	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1115	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1116	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1117	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1118	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1120	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1123	ERJ3GEYJ473V	S M CARB	0 1W	5%	47K Q
R1125	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1126	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1127	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1128	ERJ3GEYJ683V	S M CARB	0 1W	5%	68K Q
R1129	ERJ3GEYJ562V	S M CARB	0 1W	5%	5K6 Q
R1130	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1131	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1132	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1133	ERJ3GEYJ273V	S M CARB	0 1W	5%	27K Q
R1134	ERJ3GEYJ471V	S M CARB	0 1W	5%	47Q Q
R1135	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q

Cct Ref	Parts Number	Description	0 1W	5%	10K Q
R1136	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1137	ERJ3GEYJ822V	S M CARB	0 1W	5%	8K2 Q
R1138	ERJ3GEYJ153V	S M CARB	0 1W	5%	15K Q
R1139	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1140	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1141	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1142	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1143	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1144	ERJ3GEYJ473V	S M CARB	0 1W	5%	47K Q
R1145	ERJ3GEYJ473V	S M CARB	0 1W	5%	47K Q
R1147	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1150	ERJ3GEYJ331V	S M CARB	0 1W	5%	330 Q
R1151	ERJ3GEYJ683V	S M CARB	0 1W	5%	68K Q
R1152	ERJ3GEYJ332V	S M CARB	0 1W	5%	3K3 Q
R1153	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1154	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1155	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1156	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1157	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1158	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1159	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1160	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1161	ERJ3GEYJ102V	S M CARB	0 1W	5%	1K Q
R1162	ERJ3GEYJ102V	S M CARB	0 1W	5%	1K Q
R1163	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1164	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1165	ERJ3GEYJ273V	S M CARB	0 1W	5%	27K Q
R1166	ERJ3GEYJ224V	S M CARB	0 1W	5%	220K Q
R1167	ERJ3GEYJ104V	S M CARB	0 1W	5%	100K Q
R1168	ERJ3GEYJ104V	S M CARB	0 1W	5%	100K Q
R1169	ERJ3GEYJ473V	S M CARB	0 1W	5%	47K Q
R1170	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1171	ERJ3GEYJ225V	S M CARB	0 1W	5%	2M2 Q
R1172	ERJ3GEYJ221V	S M CARB	0 1W	5%	22Q Q
R1173	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1174	ERJ3GEYJ223V	S M CARB	0 1W	5%	22K Q
R1175	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1176	ERJ3GEYJ102V	S M CARB	0 1W	5%	1K Q
R1177	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1178	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1179	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1180	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1184	ERJ3GEYJ680V	S M CARB	0 1W	5%	68 Q
R1185	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1186	ERJ3GEYJ473V	S M CARB	0 1W	5%	47K Q
R1188	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1189	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1190	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1191	ERJ3GEYJ223V	S M CARB	0 1W	5%	22K Q
R1192	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1193	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1194	ERJ3GEYJ472V	S M CARB	0 1W	5%	4K7 Q
R1196	ERJ3GEYJ680V	S M CARB	0 1W	5%	68 Q
R1199	ERJ3GEYJ101V	S M CARB	0 1W	5%	10Q Q
R1200	ERJ3GEYJ222V	S M CARB	0 1W	5%	2K2 Q
R1204	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1206	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1207	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1208	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1209	EXB38V680JV	S M RES	0 083	5%	68 Q
R1210	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1211	D1HG6808A002	CHIP RES	0 25W	5%	88 Q
R1212	D1HG6808A002	CHIP RES	0 25W	5%	88 Q
R1213	ERJ3GEYJ680V	S M CARB	0 1W	5%	68 Q
R1214	EXB38V680JV	S M RES	0 083	5%	68 Q
R1215	ERJ3GEYJ680V	S M CARB	0 1W	5%	68 Q

Cct Ref	Parts Number	Description	0 1W	5%	0 Q
R1216	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1217	ERJ3GEY0R00V	S M CARB	0 1W	-	0 Q
R1218	ERJ3GEYJ103V	S M CARB	0 1W	5%	10K Q
R1251	ERJ6GEY0R00Z	S M CARB	-	-	0 Q
R1502	ERJ3GEYJ152V	S M CARB	0 1W	5%	1K5 Q

Cct Ref	Parts Number	Description				
R1745	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R1746	ERJ3GEYJ472V	S.M.CARB	0.1W	5%	4K7	Ω
R1750	ERJ3GEYJ821V	S.M.CARB	0.1W	5%	820	Ω
R1751	ERJ3GEYJ244V	S.M.CARB	0.1W	5%	240K	Ω
R1752	ERJ3GEYJ560V	S.M.CARB	0.1W	5%	56	Ω
R1755	ERJ3GEYJ471V	S.M.CARB	0.1W	5%	470	Ω
R1759	ERJ3GEYJ101V	S.M.CARB	0.1W	5%	100	Ω
R1780	ERJ3GEYJ331V	S.M.CARB	0.1W	5%	330	Ω
R1781	ERJ3GEYJ101V	S.M.CARB	0.1W	5%	100	Ω
R1782	ERJ3GEYJ102V	S.M.CARB	0.1W	5%	1K	Ω
R1783	ERJ3GEYJ271V	S.M.CARB	0.1W	5%	270	Ω
R1784	ERJ3GEYJ472V	S.M.CARB	0.1W	5%	4K7	Ω
R1901	ERJ3GEYJ472V	S.M.CARB	0.1W	5%	4K7	Ω
R1902	ERJ3GEYJ392V	S.M.CARB	0.1W	5%	3K9	Ω
R1903	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R1904	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2	Ω
R1905	ERJ3GEYJ273V	S.M.CARB	0.1W	5%	27K	Ω
R1906	ERJ3GEYJ273V	S.M.CARB	0.1W	5%	27K	Ω
R1907	ERJ3GEYJ273V	S.M.CARB	0.1W	5%	27K	Ω
R1908	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R1909	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2	Ω
R1911	ERDS1TJ5R8T	CARBON	0.5W	5%	6R8	Ω
R1912	ERDS2TJ102T	CARBON	0.25W	5%	1K	Ω
R1913	ERJ3GEYJ222V	S.M.CARB	0.1W	5%	2K2	Ω
R1926	ERJ3GEYJ102Z	SMD	0.125	5%	1K	Ω
R2011	ERJ3GEYJ183V	S.M.CARB	0.1W	5%	18K	Ω
R2013	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R2014	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R2015	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R2016	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R2017	ERJ3GEYJ471V	S.M.CARB	0.1W	5%	470	Ω
R2021	ERJ3GEYJ562V	S.M.CARB	0.1W	5%	5K6	Ω
R2022	ERJ3GEYJ221V	S.M.CARB	0.1W	5%	220	Ω
R2024	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R2029	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R2032	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R2033	ERJ3GEYJ471V	S.M.CARB	0.1W	5%	470	Ω
R2036	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R2037	ERJ3GEYJ102Z	SMD	0.125	5%	1K	Ω
R2038	ERJ3GEYJ562V	S.M.CARB	0.1W	5%	5K6	Ω
R2039	ERJ3GEYJ221V	S.M.CARB	0.1W	5%	220	Ω
R2040	ERJ3GEYJ222V	S.M.CARB	0.1W	5%	2K2	Ω
R2041	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R2042	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R2043	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R2044	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R2045	ERJ3GEY0R00Z	S.M.CARB	-	-	0	Ω
R3001	ERJ3GEYJ183V	S.M.CARB	0.1W	5%	18K	Ω
R3002	ERJ3GEYJ101V	S.M.CARB	0.1W	5%	100	Ω
R3003	ERJ3GEYJ183V	S.M.CARB	0.1W	5%	18K	Ω
R3004	ERJ3GEYJ101V	S.M.CARB	0.1W	5%	100	Ω
R3005	ERJ3GEYJ123V	S.M.CARB	0.1W	5%	12K	Ω
R3006	ERJ3GEYJ101V	S.M.CARB	0.1W	5%	100	Ω
R3007	ERJ3GEYJ272V	S.M.CARB	0.1W	5%	2K7	Ω
R3008	ERJ3GEYJ750V	S.M.CARB	0.1W	5%	75	Ω
R3009	ERJ3GEYJ183V	S.M.CARB	0.1W	5%	18K	Ω
R3010	ERJ3GEYJ101V	S.M.CARB	0.1W	5%	100	Ω
R3011	ERJ3GEYJ183V	S.M.CARB	0.1W	5%	18K	Ω
R3012	ERJ3GEYJ101V	S.M.CARB	0.1W	5%	100	Ω
R3013	ERJ3GEYJ272V	S.M.CARB	0.1W	5%	2K7	Ω
R3014	ERJ3GEYJ123V	S.M.CARB	0.1W	5%	12K	Ω
R3015	ERJ3GEYJ750V	S.M.CARB	0.1W	5%	75	Ω
R3016	ERJ3GEYJ750V	S.M.CARB	0.1W	5%	75	Ω
R3017	ERJ3GEYJ750V	S.M.CARB	0.1W	5%	75	Ω
R3018	ERJ3GEYJ750V	S.M.CARB	0.1W	5%	75	Ω
R3019	ERJ3GEYJ750V	S.M.CARB	0.1W	5%	75	Ω

Cct Ref	Parts Number	Description				
R3020	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3021	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3022	ERJ3GEYJ391V	S.M.CARB	0.1W	5%	390	Ω
R3023	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3024	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3025	ERJ3GEYJ391V	S.M.CARB	0.1W	5%	390	Ω
R3026	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3027	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3029	ERJ3GEYJ104V	S.M.CARB	0.1W	5%	100K	Ω
R3030	ERJ3GEYJ104V	S.M.CARB	0.1W	5%	100K	Ω
R3031	ERJ3GEYJ391V	S.M.CARB	0.1W	5%	390	Ω
R3032	ERJ3GEYJ391V	S.M.CARB	0.1W	5%	390	Ω
R3033	ERJ3GEYJ104V	S.M.CARB	0.1W	5%	100K	Ω
R3034	ERJ3GEYJ104V	S.M.CARB	0.1W	5%	100K	Ω
R3037	ERJ3GEYJ104V	S.M.CARB	0.1W	5%	100K	Ω
R3038	ERJ3GEYJ104V	S.M.CARB	0.1W	5%	100K	Ω
R3039	ERJ3GEYJ680V	S.M.CARB	0.1W	5%	68	Ω
R3040	ERJ3GEYJ680V	S.M.CARB	0.1W	5%	68	Ω
R3043	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3049	ERJ3GEYJ391V	S.M.CARB	0.1W	5%	390	Ω
R3050	ERJ3GEYJ391V	S.M.CARB	0.1W	5%	390	Ω
R3056	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3057	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3058	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3059	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3060	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3061	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3062	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3063	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3064	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3065	ERJ3GEY0R00V	S.M.CARB	0.1W	-	0	Ω
R3201	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3202	ERJ3GEYJ103V	S.M.CARB	0.1W	5%	10K	Ω
R3203	ERG2SJS151H	METAL	2W	5%	150	Ω
R3205	ERDS1TJ151T	CARBON	0.5W	5%	150	Ω
R3208	ERG2SJS151H	METAL	2W	5%	150	Ω
R3212	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R3213	ERJ3GEYJ101Z	SMD	125W	5%	100	Ω
R3214	ERJ3GEYJ153V	S.M.CARB	0.1W	5%	15K	Ω
R3215	ERJ3GEYJ153V	S.M.CARB	0.1W	5%	15K	Ω
R3217	ERDS1TJ151T	CARBON	0.5W	5%	150	Ω
CAPACITORS						
C107	ECJ2VF1H104Z	S.M.CAP	50V	100nF		
C108	ECA1CM100B	ELECT	16V	10μF		
C110	ECJ2VB1H103K	S.M.CAP	50V	10nF		
C111	ECA1HMR33B	ELECT	50V	330nF		
C117	ECJ2VB1H103K	S.M.CAP	50V	10nF		
C118	ECJ2VF1H104Z	S.M.CAP	50V	100nF		
C119	ECA1CM221B	ELECT	16V	220μF		
C122	ECJ2FB1H104K	S.M.CAP	50V	100nF		
C130	ECJ2VB1H103K	S.M.CAP	50V	10nF		
C131	ECJ2VB1C104K	S.M.CAP	16V	100nF		
C137	ECJ2VC1H100D	S.M.CAP	50V	10pF		
C138	ECJ2VC1H220J	S.M.CAP	50V	22pF		
C141	ECJ2VB1H103K	S.M.CAP	50V	10nF		
C142	ECJ2FB1H104K	S.M.CAP	50V	100nF		
C251	ECA1HM010B	ELECT	50V	1μF		
C252	ECA1HMG010B	ELECT	50V	1μF		
C253	ECA1HM4R7B	ELECT	50V	4.7μF		
C254	ECJ2VB1H332K	S.M.CAP	50V	3.3nF		
C255	ECA1HM4R7B	ELECT	50V	4.7μF		
C256	ECJ2VB1H332K	S.M.CAP	50V	3.3nF		
C258	ECQV1H684JL3	FILM	50V	680nF		
C260	ECQV1H684JL3	FILM	50V	680nF		
C261	ECA1HM100B	ELECT	50V	10μF		
C262	ECA1HM100B	ELECT	50V	10μF		

Cct Ref	Parts Number	Description		
C263	ECA1HM101B	ELECT	50V	100μF
C264	ECQV1H154JL3	FILM	50V	150nF
C265	ECQV1H154JL3	FILM	50V	150nF
C266	ECJ2FB1H104K	S.M.CAP	50V	100nF
C267	ECJ2FB1H104K	S.M.CAP	50V	100nF
C269	ECA1HM332E	ELECT	50V	3300μF
C352	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C353	ECJ2FB1H104K	S.M.CAP	50V	100nF
C354	ECQE2104KF3 ~	FILM	250V	100nF
C355	ECKR2H102KB5	CERAMIC	500V	1nF
C358	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C359	ECJ2VC1H150J	S.M.CAP	50V	15pF
C360	ECJ2VF1E104Z	S.M.CAP	25V	100nF
C362	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C363	ECJ2FB1H104K	S.M.CAP	50V	100nF
C364	ECQE2104KF3	FILM	250V	100nF
C365	ECKR2H102KB5	CERAMIC	500V	1nF
C366	SMG1CV101MT5	ELECT	16V	100μF
C368	ECA1CM221B	ELECT	16V	220μF
C372	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C373	ECJ2FB1H104K	S.M.CAP	50V	100nF
C374	ECQE2104KF3	FILM	250V	100nF
C375	ECKR2H102KB5	CERAMIC	500V	1nF
C379	ECJ2VC1H150J	S.M.CAP	50V	15pF
C382	ECA1HM100B	ELECT	50V	10μF
C385	ECA2EM100B	ELECT	250V	10μF
C386	ECKW3D152JBR	CERAMIC	2KV	1.5nF
C451	ECJ2VB1H102K	S.M.CAP	50V	1nF
C456	ECA1HM221B	ELECT	50V	220μF
C463	ECA1HM221B	ELECT	50V	220μF
C501	ECA1EM101B	ELECT	25V	100μF
C506	ECQB1H392JF3	FILM	50V	3.9nF
C509	ECA1HM470B	ELECT	50V	47μF
C582	ECW1H20102JYV	FILM	2kV	1nF
C587	ECKR2H471KB5	CERAMIC	500V	470pF
C558	ECA1HMG101B	ELECT	50V	100μF
C559	ECJ2FB1H104K	S.M.CAP	50V	100nF
C560	ECQE2393KFW	FILM	250V	39nF
C561	ECA1EM471B	ELECT	25V	470μF
C562	ECKR2H101KB5	CERAMIC	500V	100pF
C563	ECA2EM100B	ELECT	250V	10μF
C564	ECEA2AN2R25B	ELECT	100V	2.2μF
C565	ECQB1H273JF3	FILM	50V	27nF
C566	ECKR2H471KB5	CERAMIC	500V	470pF
C567	ECA1EM471B	ELECT	25V	470μF
C568	ECKR2H471KB5	CERAMIC	500V	470pF
C572	ECJ2VB2A102K	S.M.CAP	100V	1nF
C573	ECJ2VC1H221J	S.M.CAP	50V	220pF
C574	ECJ2VC1H221J	S.M.CAP	50V	220pF
C701	ECKR2H182KB5	CERAMIC	500V	1.5nF
C702	ECQE1335KFB	FILM	100V	3.3μF
C703	ECJ2VB1H333K	S.M.CAP	50V	33nF
C704	ECQV1H474JL3	FILM	50V	470nF
C706	ECKR2H471KB5	CERAMIC	500V	470pF
C707	ECJ2VB1H471K	S.M.CAP	50V	470pF
C708	ECJ2VB1H333K	S.M.CAP	50V	33nF
C709	ECJ2VB1H333K	S.M.CAP	50V	33nF
C710	ECA1HM010B	ELECT	50V	1μF
C801	ECQU2A224MLA	FILM	275V	220nF
C804	222233820154	FILM	275V	150nF
C805	ECKW2H472P7U	CERAMIC	500V	4.7nF
C806	ECKW2H472P7U	CERAMIC	500V	4.7nF
C807	ECKW2H472P7U	CERAMIC	500V	4.7nF
C808	ECKW2H472P7U	CERAMIC	500V	4.7nF
C809	ECQE6823KFB	FILM	830V	82nF
C811	ECKWNA101MB	CERAMIC	400V	100pF

Cct Ref	Parts Number	Description		
C1124	ECJ1VF1E104Z	S M CAP	25V	100nF
C1125	ECJ1VF1E104Z	S M CAP	25V	100nF
C1126	ECJ1VF1E104Z	S M CAP	25V	100nF
C1127	ECJ1VF1E104Z	S M CAP	25V	100nF
C1501	ECJ1VC1H220J	S M CAP	50V	22pF
C1502	ECJ1VC1H220J	S M CAP	50V	22pF
C1503	ECJ1VF1E104Z	S M CAP	25V	100nF
C1505	ECJ2FB1H104K	S M CAP	50V	100nF
C1506	ECJ1VF1E104Z	S M CAP	25V	100nF
C1507	ECJ1VF1E104Z	S M CAP	25V	100nF
C1508	ECJ2FB1H104K	S M CAP	50V	100nF
C1509	ECJ1VB1H103K	S M CAP	50V	10nF
C1510	ECJ1VF1E104Z	S M CAP	25V	100nF
C1511	ECJ2FB1H104K	S M CAP	50V	100nF
C1512	ECJ2FB1H104K	S M CAP	50V	100nF
C1514	ECJ1VF1E104Z	S M CAP	25V	100nF
C1515	ECA1CM100B	ELECT	16V	10µF
C1516	ECJ1VF1E104Z	S M CAP	25V	100nF
C1517	ECJ1VC1H271J	S M CAP	50V	270pF
C1518	ECJ1VC1H271J	S M CAP	50V	270pF
C1519	ECA1CM100B	ELECT	16V	10µF
C1520	ECJ1VB1H103K	S M CAP	50V	10nF
C1522	ECJ1VF1E104Z	S M CAP	25V	100nF
C1524	ECJ1VF1E104Z	S M CAP	25V	100nF
C1525	ECJ1VF1E104Z	S M CAP	25V	100nF
C1526	ECJ1VC1H271J	S M CAP	50V	270pF
C1527	ECJ1VC1H331J	S M CAP	50V	330pF
C1528	ECJ1VC1H331J	S M CAP	50V	330pF
C1530	ECJ1VF1E104Z	S M CAP	25V	100nF
C1532	ECJ1VF1E104Z	S M CAP	25V	100nF
C1533	ECJ1VB1H103K	S M CAP	50V	10nF
C1535	ECJ1VF1E104Z	S M CAP	25V	100nF
C1537	ECJ1VF1E104Z	S M CAP	25V	100nF
C1543	ECJ2FB1H104K	S M CAP	50V	100nF
C1544	ECJ2FB1H104K	S M CAP	50V	100nF
C1545	ECA1CM221B	ELECT	16V	220µF
C1548	ECJ1VF1E104Z	S M CAP	25V	100nF
C1549	ECA1CM470B	ELECT	16V	47µF
C1550	ECJ1VF1E104Z	S M CAP	25V	100nF
C1551	ECJ1VF1E104Z	S M CAP	25V	100nF
C1560	ECJ1VF1E104Z	S M CAP	25V	100nF
C1561	ECJ1VF1E104Z	S M CAP	25V	100nF
C1563	SMG1HV220MTS	ELECT	50V	22µF
C1565	ECJ2FB1H104K	S M CAP	50V	100nF
C1573	ECJ1VB1H103K	S M CAP	16V	47nF
C1574	ECJ1VB1H103K	S M CAP	16V	47nF
C1575	ECJ1VB1H103K	S M CAP	16V	47nF
C1580	ECA1HM100B	ELECT	50V	10µF
C1581	ECA1HM100B	ELECT	50V	10µF
C1701	ECJ1VC1H270J	S M CAP	50V	27pF
C1702	ECJ1VC1H270J	S M CAP	50V	27pF
C1703	ECJ1VF1E104Z	S M CAP	25V	100nF
C1704	ECA1AKA221Q	ELECT	10V	220µF
C1705	ECJ1VB1H222K	S M CAP	50V	2.2nF
C1706	ECA1CM100B	ELECT	16V	10µF
C1707	ECJ1VC1H270J	S M CAP	50V	27pF
C1708	ECA1JHG102B	ELECT	6.3V	1nF
C1709	ECJ1VB1H102K	S M CAP	50V	1nF
C1710	ECJ1VB1H103K	S M CAP	50V	15nF
C1711	ECJ1VB1H103K	S M CAP	50V	15nF
C1713	ECA1CM100B	ELECT	16V	10µF
C1714	ECJ1VF1E104Z	S M CAP	25V	100nF
C1716	ECJ1VF1E104Z	S M CAP	25V	100nF
C1719	ECJ1VB1H103K	S M CAP	50V	10nF
C1720	ECJ1VB1H103K	S M CAP	50V	10nF
C1721	ECJ1VB1H103K	S M CAP	50V	10nF

Cct Ref	Parts Number	Description		
C1722	ECJ1VB1H103K	S M CAP	50V	10nF
C1723	ECA1CM101B	ELECT	16V	100µF
C1724	ECJ1VB1H222K	S M CAP	50V	2.2nF
C1725	ECA1CM100B	ELECT	16V	10µF
C1726	ECJ1VF1E104Z	S M CAP	25V	100nF
C1727	ECA1CM470B	ELECT	16V	47µF
C1728	ECJ1VF1E104Z	S M CAP	25V	100nF
C1731	ECJ1VF1E104Z	S M CAP	25V	100nF
C1732	ECJ1VF1E104Z	S M CAP	25V	100nF
C1733	ECJ1VF1E104Z	S M CAP	25V	100nF
C1734	ECJ1VC1H391J	S M CAP	50V	390pF
C1735	ECJ1VC1H391J	S M CAP	50V	390pF
C1736	ECJ1VC1H391J	S M CAP	50V	390pF
C1737	ECJ2VB1C224K	S M CAP	16V	220nF
C1739	ECA1CM101B	ELECT	16V	100µF
C1740	ECJ1VF1E104Z	S M CAP	25V	100nF
C1742	ECJ1VB1H472K	S M CAP	50V	4.7nF
C1743	ECA1HM3R3B	ELECT	50V	3.3µF
C1744	ECJ1VF1E104Z	S M CAP	25V	100nF
C1745	ECJ1VF1E104Z	S M CAP	25V	100nF
C1746	ECJ1VF1E104Z	S M CAP	25V	100nF
C1752	ECJ1VB1H471K	S M CAP	50V	470pF
C1783	ECJ1VC1H151J	S M CAP	50V	150pF
C1901	ECJ2VB1H103K	S M CAP	50V	10nF
C1902	ECJ2FB1H104K	S M CAP	50V	100nF
C1905	ECA1CM470B	ELECT	16V	47µF
C1906	ECJ2VB1H103K	S M CAP	50V	10nF
C1906	ECJ2FB1H104K	S M CAP	50V	100nF
C1909	ECJ2FB1H104K	S M CAP	50V	100nF
C2001	ECA1CM100B	ELECT	16V	10µF
C2002	ECJ2VB1H152K	S M CAP	50V	1.5nF
C2003	ECJ2VC1H471J	S M CAP	50V	470pF
C2004	ECJ2VC1H221J	S M CAP	50V	220pF
C2005	ECJ2FB1H104K	S M CAP	50V	100nF
C2006	ECJ2VB1H102K	S M CAP	50V	1nF
C2007	ECJ2VB1H102K	S M CAP	50V	1nF
C2009	ECJ2VB1H102K	S M CAP	50V	1nF
C2010	ECJ2VB1H102K	S M CAP	50V	1nF
C2011	ECJ2VB1H102K	S M CAP	50V	1nF
C2012	ECA1CM100B	ELECT	16V	10µF
C2013	ECA1CM100B	ELECT	16V	10µF
C2014	ECJ2VC1H471J	S M CAP	50V	470pF
C2015	ECJ2VB1H152K	S M CAP	50V	1.5nF
C2016	ECA1HM100B	ELECT	50V	10µF
C2017	ECJ2VB1H102K	S M CAP	50V	1nF
C2018	ECJ2VB1H102K	S M CAP	50V	1nF
C2019	ECJ2VB1H102K	S M CAP	50V	1nF
C2020	ECJ2VB1H102K	S M CAP	50V	1nF
C2021	ECA1HM3R3B	ELECT	50V	3.3µF
C2022	ECJ2FB1H104K	S M CAP	50V	100nF
C2023	ECJ2VC1H221J	S M CAP	50V	220pF
C2024	ECJ2VC1H221J	S M CAP	50V	220pF
C2025	ECA1CM100B	ELECT	16V	10µF
C2026	ECJ2FB1H104K	S M CAP	50V	100nF
C2027	ECJ2VC1H221J	S M CAP	50V	220pF
C2028	ECA1CM100B	ELECT	16V	10µF
C2029	ECJ2VB1H152K	S M CAP	50V	1.5nF
C2030	ECJ2VC1H471J	S M CAP	50V	470pF
C2031	ECJ2VC1H070D	S M CAP	50V	7pF
C2032	ECJ2VC1H470J	S M CAP	50V	47pF
C2034	ECJ2VC1H010C	S M CAP	50V	1pF
C2035	ECJ2VC1H010C	S M CAP	50V	1pF
C2041	ECJ2VF1C334Z	S M CAP	16V	330nF
C2042	ECJ2VF1C334Z	S M CAP	16V	330nF
C2043	ECJ2VB1H103K	S M CAP	50V	10nF
C2044	ECA1CM331B	ELECT	16V	330µF

Cct Ref	Parts Number	Description		
C2046	ECA1CM470B	ELECT	16V	47µF
C2047	ECA1CM470B	ELECT	16V	47µF
C2048	ECJ2VF1C334Z	S M CAP	16V	330nF
C2049	ECJ2VF1C334Z	S M CAP	16V	330nF
C2050	ECJ2VF1C334Z	S M CAP	16V	330nF
C2051	ECJ2VF1C334Z	S M CAP	16V	330nF
C2052	ECJ2VC1H221J	S M CAP	50V	220pF
C2053	ECJ2VC1H221J	S M CAP	50V	220pF
C2054	ECJ2VC1H221J	S M CAP	50V	220pF
C2055	ECJ2VC1H221J	S M CAP	50V	220pF
C2056	ECA1CM470B	ELECT	16V	47µF
C2057	ECA1CM470B	ELECT	16V	47µF
C2058	ECA1CM470B	ELECT	16V	47µF
C2059	ECA1CM470B	ELECT	16V	47µF
C2060	ECJ2VF1C334Z	S M CAP	16V	330nF
C2061	ECJ2VF1C334Z	S M CAP	16V	330nF
C2062	ECJ2VC1H221J	S M CAP	50V	220pF
C2063	ECJ2VC1H221J	S M CAP	50V	220pF
C2361	ECA1VM102B	ELECT	35V	1000µF
C2362	ECA1VM102B	ELECT	35V	1000µF
C2363	ECJ2VC1H102J	S M CAP	50V	1nF
C2364	ECJ2VC1H102J	S M CAP	50V	1nF
C3001	ECJ1VC1H561J	S M CAP	50V	560pF
C3002	ECJ1VC1H561J	S M CAP	50V	560pF
C3003	ECJ1VC1H561J	S M CAP	50V	560pF
C3006	ECJ1VC1H561J	S M CAP	50V	560pF
C3007	ECJ1VC1H561J	S M CAP	50V	560pF
C3008	ECJ1VC1H561J	S M CAP	50V	560pF
C3010	ECJ1VC1H561J	S M CAP	50V	560pF
C3011	ECJ1VC1H561J	S M CAP	50V	560pF
C3013	ECJ1VC1H561J	S M CAP	50V	560pF
C3014	ECJ1VC1H561J	S M CAP	50V	560pF
C3015	ECJ1VC1H561J	S M CAP	50V	560pF
C3016	ECJ1VC1H561J	S M CAP	50V	560pF
C3018	ECJ1VC1H561J	S M CAP	50V	560pF
C3019	ECJ1VC1H561J	S M CAP	50V	560pF
C3038	ECA1CM100B	ELECT	16V	10µF
C3039	ECA1CM100B	ELECT	16V	10µF
C3040	ECA1CM100B	ELECT	16V	10µF
C3041	ECA1CM100B	ELECT	16V	10µF
C3044	ECA1CM100B	ELECT	16V	10µF
C3045	ECA1CM100B	ELECT	16V	10µF
C3201	ECJ2VB1H103K	S M CAP	50V	10nF
C3202	ECJ2VB1H103K	S M CAP	50V	10nF
C3203	ECJ2VC1H561J	S M CAP	50V	560pF
C3204	ECJ2VC1H561J	S M CAP	50V	560pF
C3207	ECJ2VC1H271J	S M CAP	50V	270pF
C3213	ECJ2VC1H561J	S M CAP	50V	560pF
C3214	ECJ2VC1H561J	S M CAP	50V	560pF
C3215	SMG1HV470MT5	ELECT	50V	47µF
C3216	SMG1HV470MT5	ELECT	50V	47µF
C3217	ECJ2VC1H561J	S M CAP	50V	560pF
C3218	ECJ2VC1H561J	S M CAP	50V	560pF
TERMINALS AND LINKS				
JK3001	350536400	SCART SOCKET		
JK3002	350536400	SCART SOCKET		
JK3004	YKC21-5881N	ACA SOCKET		
JK3201	TJB8E026	AV TERMINAL		
SC381	330550049	CRT SOCKET		
SWITCHES				
SW801	E6892DA18	SWITCH		
SW1003	EVQ21405R	SWITCH		
SW1004	EVQ21405R	SWITCH		
SW1005	EVQ21405R	SWITCH		
SW1006	EVQ21405R	SWITCH		
SW1007	EVQ21405R	SWITCH		

Cct Ref	Parts Number	Description		
RELAYS				
RL801	8-1419125-3	RELAY		
DIFFERENCES FOR MODEL TX--28PM11				
EXPLODED VIEW				
14	TKU0E0123	BACK COVER		
15	W68MAF185X02	C R T		
16	TKY0E0136	CABINET		
17	TNP8E0202AT	D P C B		
18	TLK8E05204	DEGAUSS COIL		
19	ZTFN85013A	F B T		
20	TNP8E0202AK	G P C B		
21	TNP8EL021AP	L P C B		
22	TBMOE0249	MODEL LABEL		
MISCELLANEOUS COMPONENTS				
	TBLG3019	SET FOOT (FRONT)		
	TKKOE9507	CRT SUPPORT BRACKET R		
	TPCOE44301	CARTON		
	TPDOE0050	BOTTOM CUSHION		
	TPDOE0051	TOP CUSHION		
I.C.s				
IC1104	15002EA	32K EAROM 24C32A10P127		
COILS				
L581	ELHKL8061B	COIL		
L584	ELHSL7742	COIL		
L804	ETQR42T027A	PFC COIL		
RESISTORS				
R370	ERQ1CJP1R2S	FUSIBLE	1W 5%	1 2 Ω
R458	ERDS1TJ270T	CARBON	0.5W 5%	27 Ω
R480	ERG3FJ102H	METAL	3W 5%	1K Ω
R463	ERJ6GEYJ681V	S M CARB	0.1W 5%	680 Ω
R507	ERG3FJ820H	METAL	3W 5%	82 Ω
R553	ERX3SJS1R2H	METAL	3W 5%	1R2 Ω
R583	ERG3FJ561H	METAL	3W 5%	560 Ω
R703	343-22R7AY	METAL	10W 5%	2R7 Ω
R713	ERDS2TJ161T	CARBON	0.25W 5%	160 Ω
CAPACITORS				
C459	ECQV1H474JL3	FILM	50V	470nF
C551	ECQW3D221JBR	CERAMIC	2kV	220pF
C581	ECQW4274JBB	FILM	400V	270nF
C583	ECWH20472JVB	FILM	2KV	4.7nF
C584	ECWH20472JVB	FILM	2KV	4.7nF
C586	ECQF4123JZH	FILM	400V	12nF
C597	ECQF4103JZH	FILM	400V	10nF
DIFFERENCES FOR MODEL TX--32PM11				
EXPLODED VIEW				
14	TKU0E0119	BACK COVER		
15	W76EPA11X74	C R T		
16	TKY0E0135	CABINET		
17	TNP8E0202AS	D P C B		
18	TLK8E05203	DEGAUSS COIL		
19	ZTFN85012A	F B T		
20	TNP8E0202AD	G P C B		
21	TNP8EL021AL	L P C B		
22	TBMOE0246	MODEL LABEL		
MISCELLANEOUS COMPONENTS				
	TBL8E017	SET FEET		
	TKKOE9508	CRT SUPPORT BRACKET L		
	TPCOE44301	CARTON		

SCHEMATIC DIAGRAMS FOR MODELS TX-32PM11, TX-28PM11 (GP2 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturers' specified parts.

NOTE

1. RESISTOR

All resistors are carbon $\frac{1}{4}$ W resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)

2. CAPACITORS

All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μ F unless otherwise stated.

3. COIL

Unit of inductance is μ H, unless otherwise stated.

4. TEST POINT

 Test Point Position

5. EARTH SYMBOL

 Chassis Earth (Cold)

 Line Earth (Hot)

6. VOLTAGE MEASUREMENT

Voltage is measured by a d.c. voltmeter.
Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

7

 Indicates the Video signal path

 Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

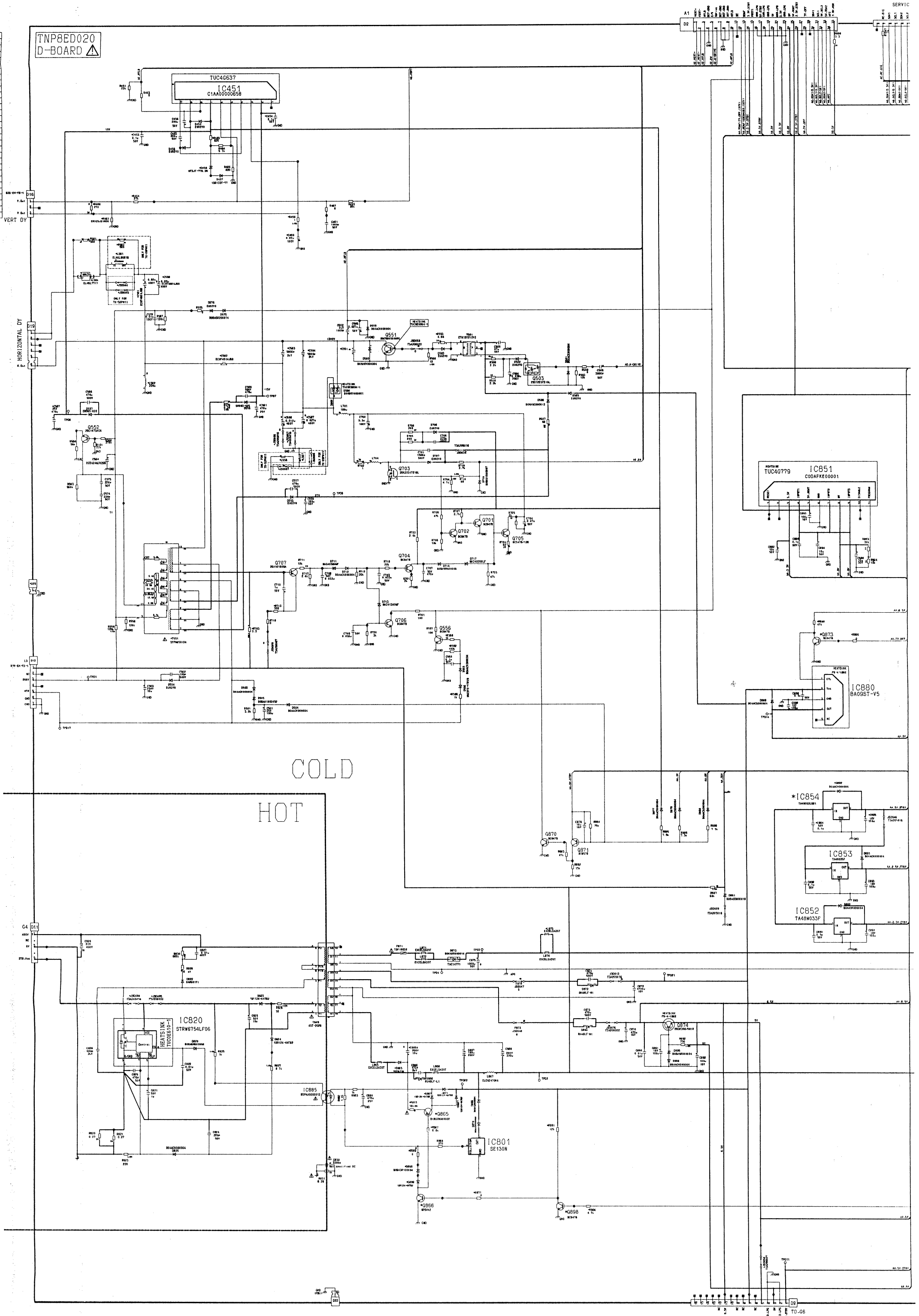
- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

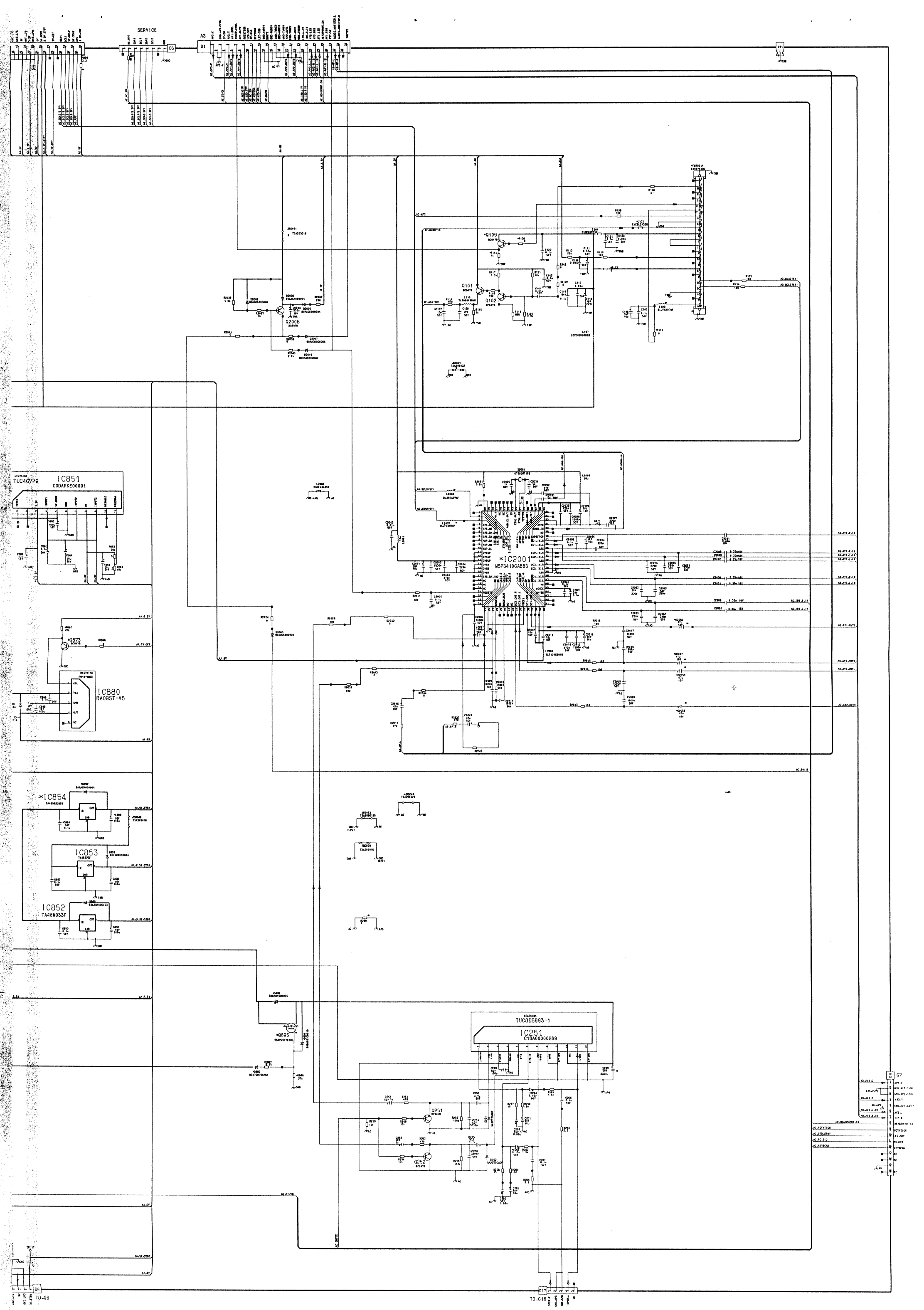
NOTE

1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

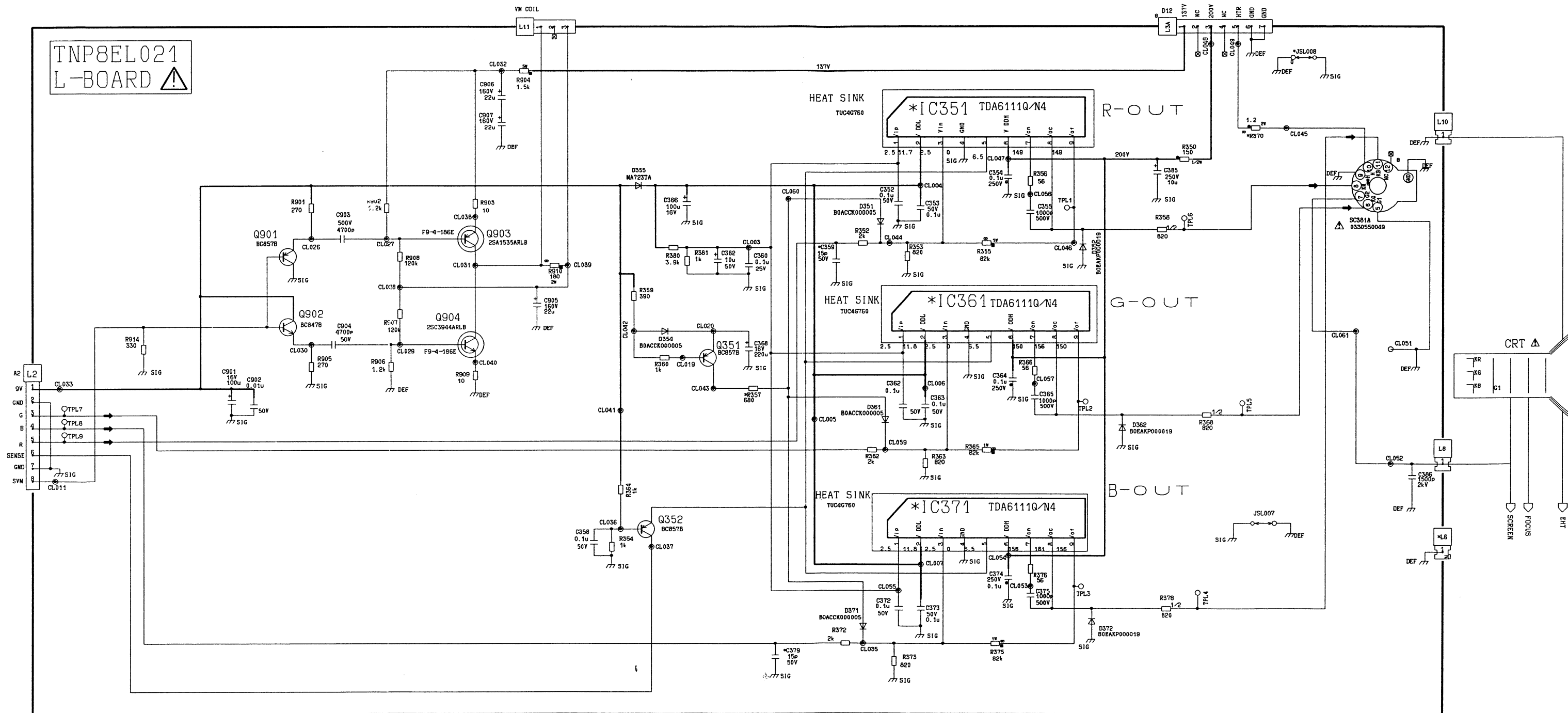
DIFFERENCE LIST

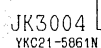
POSITION	M O D E L	
	TX-28PM11	TX-32PM11
C453	NOT USED	ECJ2FB1H104K
C454	NOT USED	ECJ2FB1H104K
C459	ECQV1H474JL3	ECQ81224KFW
C551	ECKW3D221JBR	ECKW3D391JBR
C581	ECVF4R74JBB	ECVF4R24JBB
C582	JUMPER VIRE	ECVF4S14JBB
C583	ECVH20472JVB	ECVH20582JVB
C584	ECVH20472JVB	ECVH20562JVB
C586	ECQF4123JZH	NOT USED
C587	ECQF4103JZH	ECQF4273JZH
C588	NOT USED	ECVF4R24JBB
J5D044	NOT USED	JUMPER VIRE
J5D045	NOT USED	JUMPER VIRE
J5D087	JUMPER VIRE	NOT USED
J5D088	JUMPER VIRE	NOT USED
L557	NOT USED	EXCELDR35V
L558	NOT USED	EXCELBA35V
L581	ELMKLB081B	NOT USED
L582	NOT USED	ELC1BR2P21G
L584	ELH5L774R	ELH5L7717
R456	ERDS1TJ270T	ERDS1TJ1R0T
R460	ERG3FJ102H	ERG3J3271H
R463	ERJ6GEYJ681V	ERJ6GEYJ621V
R507	ERG3FJ620H	ERG3FJ680H
R553	ERX3SJS1R2H	ERX3SJSR68H
R583	ERG3FJ561H	NOT USED
R703	343-22R7AY	343-23R3AY
R713	ERDS2TJ161T	ERDS2TJ301T
T551	ZTFN65013A	ZTFN65012A

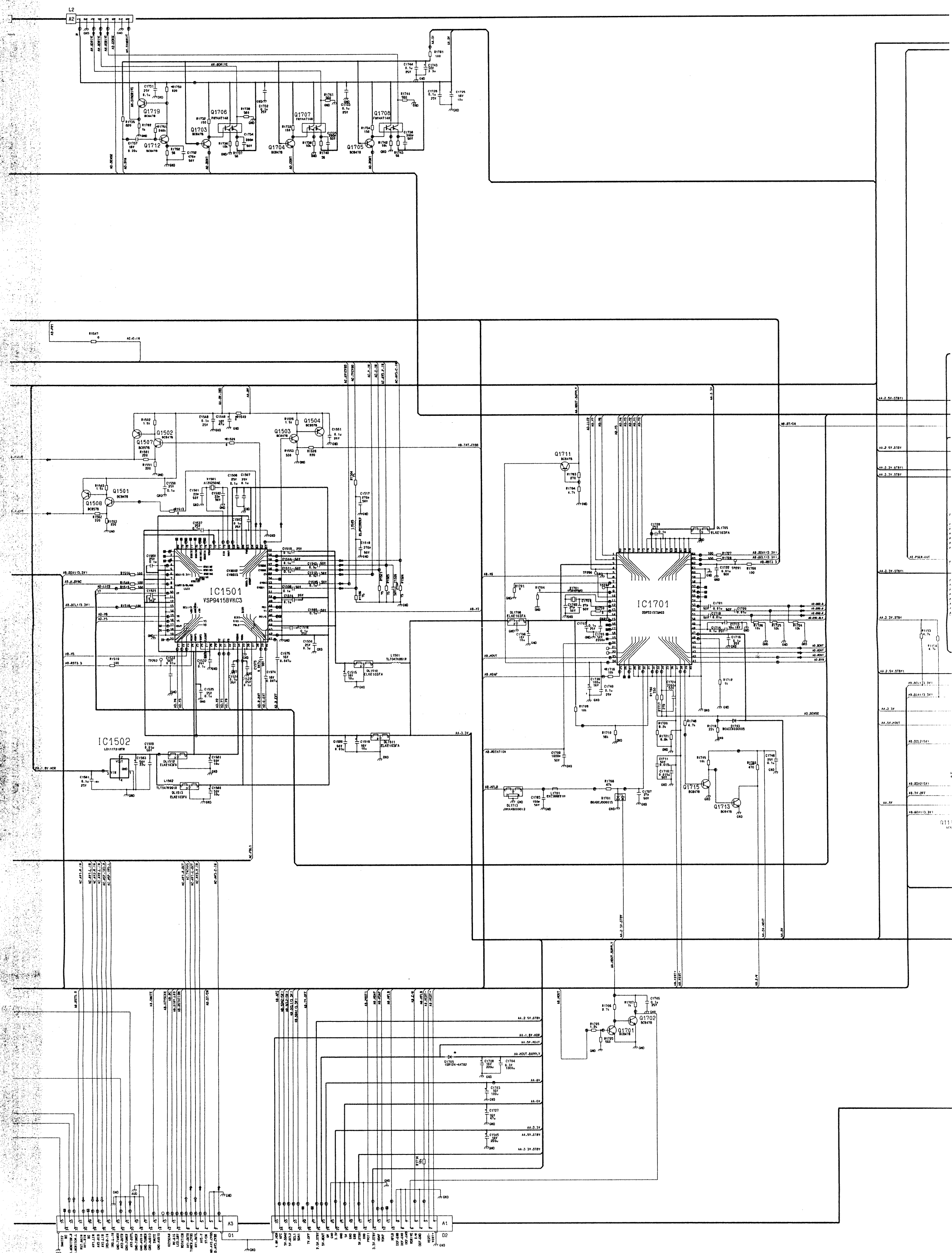


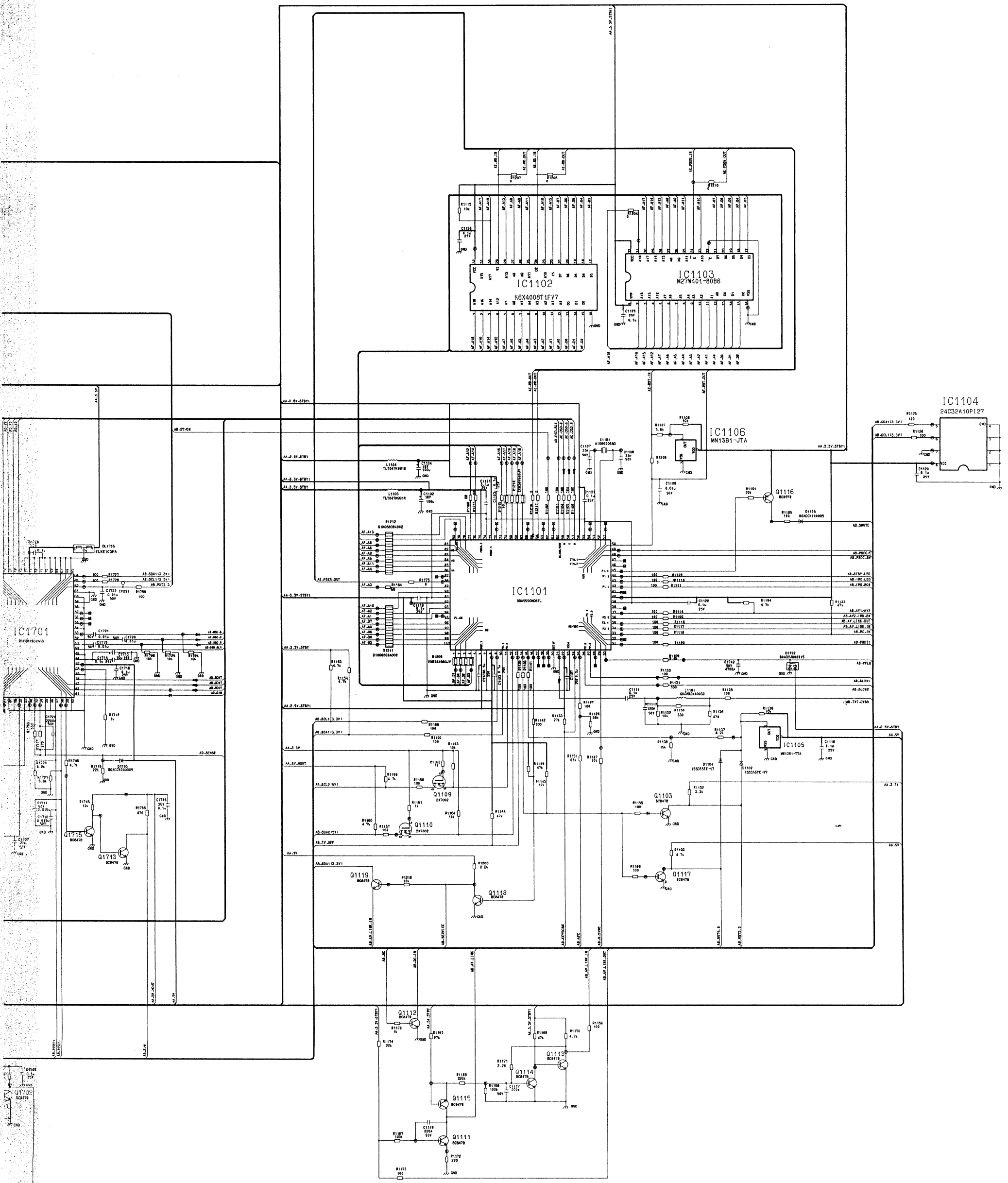


TNP8EL021
L-BOARD



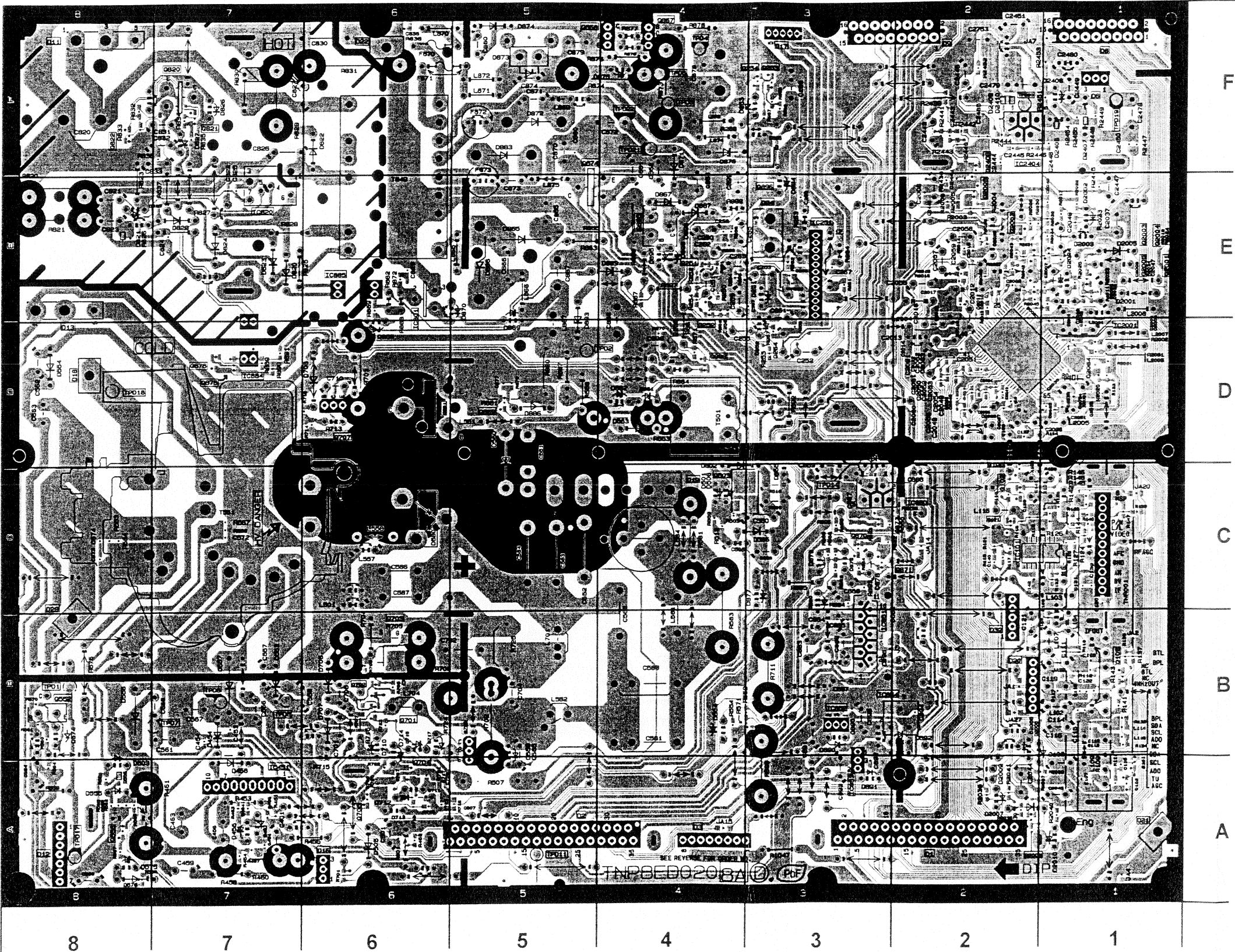






CONDUCTOR VIEWS FOR MODELS
TX-32PM11, TX-28PM11

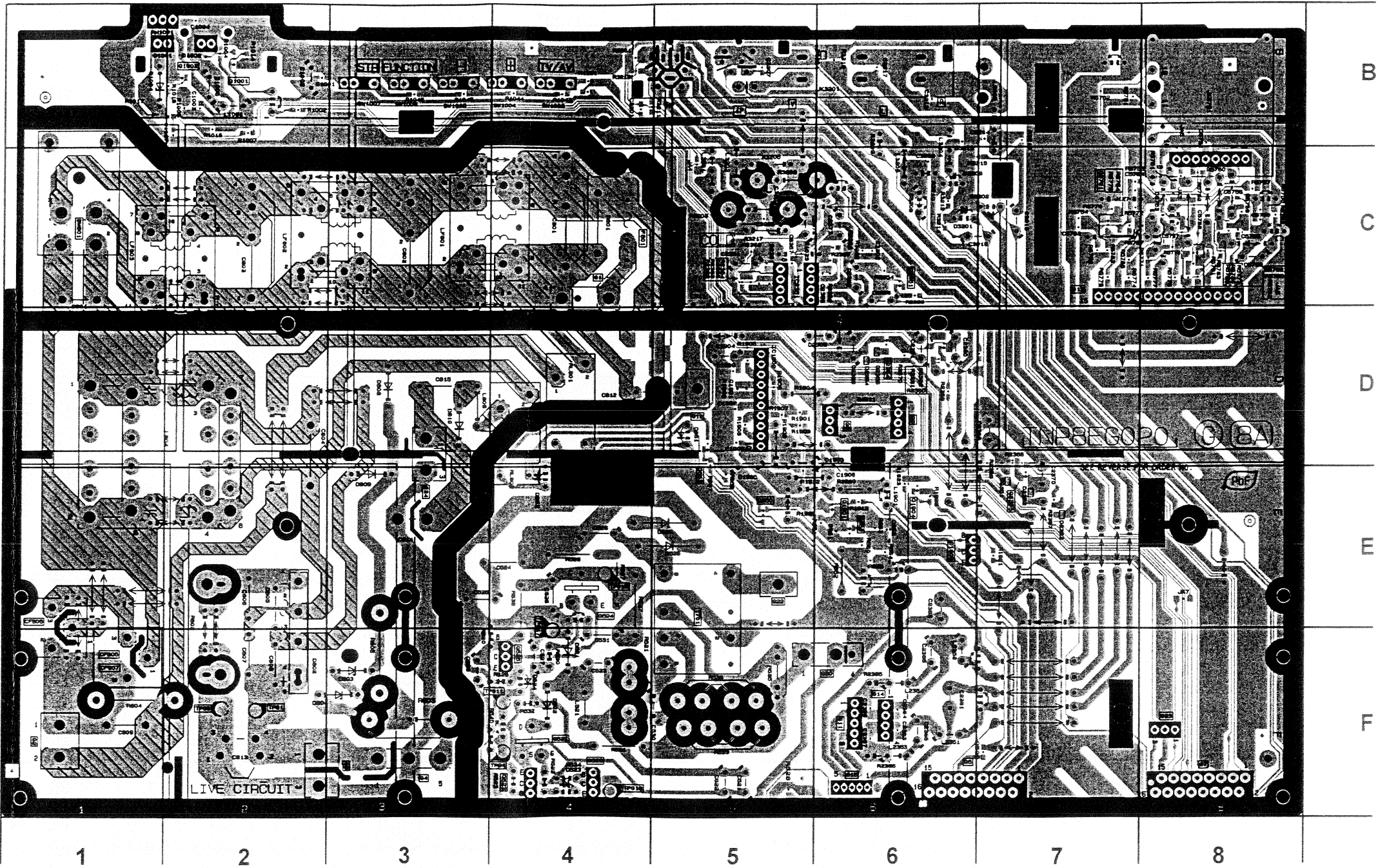
D - BOARD TNP8ED020



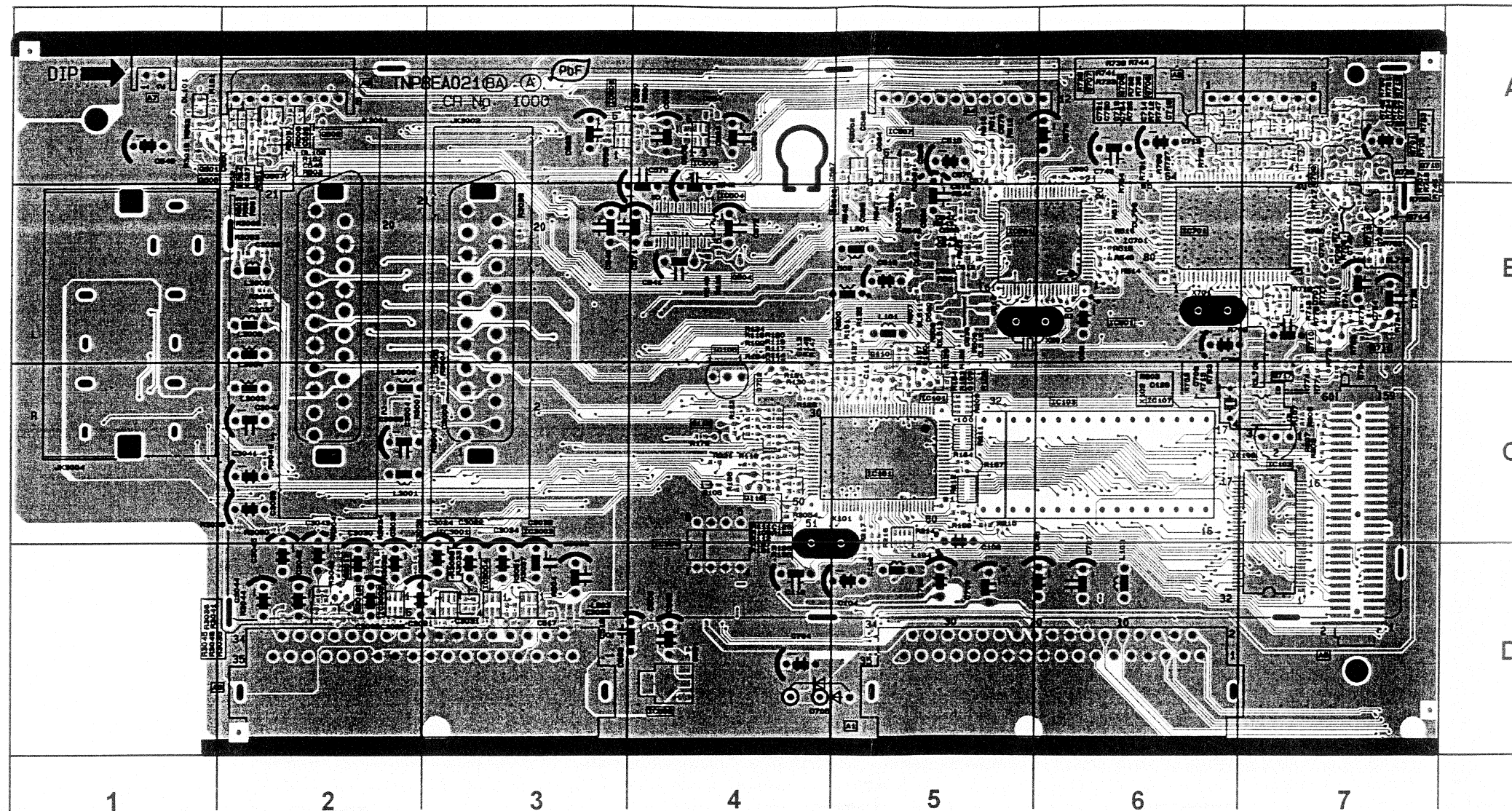
TRAN'S		D505	A6	D887	E4
Q101	C2	D553	B7	D888	C2
Q102	C2	D554	D8	D889	E4
Q109	B1	D555	A8	D890	B3
Q2006	A2	D556	A8	D891	A3
Q251	E4	D557	B7	D892	B2
Q252	E4	D558	B8	D893	D5
Q503	C4	D559	B5	D894	E3
Q551	D6	D560	D5	D895	E4
Q552	B8	D563	D4	D896	E4
Q556	A8	D565	C4	D898	F3
Q701	B6	D566	C4		
Q702	B6	D575	A8		
Q703	B6	D576	A8	IC'S	
Q704	A6	D580	C6	IC2001	D2
Q705	B5	D706	B6	IC251	E3
Q706	A6	D707	B6	IC451	A7
Q707	D6	D710	B6	IC801	E6
Q865	E4	D711	A6	IC820	E7
Q866	D4	D712	A6	IC851	B3
Q870	C3	D713	A6	IC852	B3
Q871	C3	D714	B6	IC853	A3
Q873	C3	D717	B6	IC854	B2
Q874	E5	D820	E7	IC880	C3
Q896	F3	D822	F6	IC885	E6
Q898	D4	D823	E7		
		D824	E7		
DIODES		D825	E8	TP'S	
D2005	E1	D865	E5	TPD1	B8
D2006	B2	D866	E5	TPD11	A5
D2007	A2	D867	E4	TPD14	C3
D2008	B1	D868	D6	TPD17	A8
D2009	A2	D869	D5	TPD18	D8
D2010	A1	D870	E5	TPD19	F1
D251	E3	D871	F4	TPD2	D5
D252	D3	D872	F5	TPD20	F2
D454	B7	D873	F5	TPD21	F4
D456	A7	D874	F5	TPD22	F4
D457	A7	D875	F4	TPD3	F4
D458	A7	D877	C3	TPD4	F4
D501	C4	D878	C3	TPD5	F4
D502	C4	D880	C3	TPD6	B7
D503	A8	D881	D4	TPD7	B7
D504	B4	D883	F5	TPD8	B7

G - BOARD TNP8EG020

TRAN'S	D808	D3
Q1002	B2	D809 E3
Q1901	E6	D851 D5
Q850	E5	
Q852	E6	IC'S
		IC1900 D5
DIODE	RM1001	B1
D1001	B1	
D1004	B1	TP'S
D3201	C6	TPG1 F2
D3202	C7	TPG11 F4
D3203	C6	TPG16 E4
D3204	B6	TPG17 F4
D802	E2	TPG18 F4
D803	F3	TPG4 F4
D804	F3	TPG6 F2



A - BOARD TNP8EA021 - TOP



TRAN'S	DIODE
Q1109 C5	D1105 C4
Q1110 C5	D1701 B7
Q1112 C4	D1702 C4
Q1116 C4	D1705 D4
Q1501 A1	
Q1502 A2	IC'S
Q1504 B4	IC1101 C5
Q1507 A2	IC1102 C7
Q1508 A1	IC1103 C6
Q1701 A7	IC1104 D4
Q1702 A7	IC1105 C4
Q1706 A7	IC1106 C7
Q1707 A6	IC1501 B6
Q1708 A7	IC1502 D4
Q1711 C7	IC1701 B6
Q1712 A7	
Q1713 B7	
Q1715 A7	

A - BOARD TNP8EA021 - BOTTOM

TRAN'S		
Q1103	C3	Q1703 A1
Q1104	B5	Q1704 A2
Q1105	B5	Q1719 A1
Q1106	B5	Q3002 C6
Q1107	B6	Q3003 C7
Q1108	B6	Q3005 C6
Q1111	C3	Q3006 C6
Q1113	C4	Q3008 B7
Q1114	C4	Q3009 C7
Q1115	C3	
Q1117	C3	DIODE
Q1118	B4	D1102 C3
Q1119	B4	D1104 B3
Q1503	B4	D1703 B1

